PetroSkills[®]



2024 MIDSTREAM eLearning Course Catalog



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It's our experience...

For over 50 years, our mission has been to help companies build competent petroleum professionals worldwide.

A more knowledgeable workforce helps companies in the oil and gas industry meet compliance demands and withstand business challenges.

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25 of the world's largest refineries have trained online with ePilot

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> More than **1400** hours of content designed for the petroleum industry

Over 10 years of accreditation with IACET for providing CEUs to learners

Unlimited access to eLearning courses covering subjects across value chain

That makes it easy for you to

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BUILD COMPETENCY

Instructionally sound, on demand learning is designed for adult learners to accelerate competency. The ROI of increased competency pays for itself over and over.



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Quick start up with ready made curriculums let you achieve compliance and goals beyond. Creating and achieving enterprise standards is made easy.



								Job	Roles					
	ePilot™ Course Category	Course Hours of Content	Well Servicing Crew Member	Pipeline Operator	Drilling Rig Crew Member	Gas Processing Operator	Production Operator	Refinery / Petrochem Operator	Instrument Technician	Electrical Technician	Mechanical Rotating Equipment	Mechanical Fixed Equipment	Safety/EHS	UK-EHS
	General Maintenance	77	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		
	Petroleum Industry Overview	39	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		
	Hand Tools and Equipment	15	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		
Fundamentals	Health & Safety (EHS)	141	Ø	✓	Ø	✓	✓	Ø	Ø	Ø	Ø	✓	✓	Ø
undam	Electrical Maintenance	103	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		
ш	Math and Science Fundamentals	53	Ø	✓	Ø	✓	✓	Ø	♦	Ø	Ø	✓		
	Operator/Plant Administration	34	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		
	Process Safety	65	✓	Ø	✓	Ø	Ø	✓	Ø	Ø	Ø	Ø		
	Mechanical Maintenance	115	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		
Equipment	Stationary Equipment	73	Ø	Ø	Ø	Ø	Ø	Ø	Ø		Ø	Ø		
Equip	Instrumentation and Control	113	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		
	Utility, Safety and Facility Systems	102	✓	Ø	Ø	Ø	Ø	✓	Ø	✓	♦	Ø		
	Geology, Petrophysics and Reservoirs	14					Ø							
	Well Construction, Completions and Workovers	15	✓		✓		✓							
ctors	Production Operations	140		Ø		Ø	Ø		Ø	Ø	Ø	Ø		
Subsec	Offshore and Subsea Systems	6	✓	✓	✓									
Industry Subsectors	Pipeline Operations	28	Ø	Ø	Ø									
Inc	Hydrocarbon Storage and Loading	30	✓	Ø	✓	✓	✓	Ø				Ø		
	Gas Processing Operations	63		Ø		✓	Ø	Ø	Ø					
	Refinery Operations	135		✓		✓		Ø	Ø	Ø	Ø			
	Petrochemical Process Equipment	20				Ø	Ø	Ø			Ø	Ø		

This course listing is arranged by Category, Subject and Title in the Table of Contents on the following pages. Each course belongs to a library denoted by a code and color on each listing (table at right). A listing of courses in each library is in the back of the catalog. For more information on libraries and courses, please contact your PetroSkills representative.

Library	Code
Core Competency	СС
EHS – US Mandates	EHS
EI&A Mechanical	EIAM
Gas Processing	GP
Industry Overview	INO
Midstream Operations	MSO
Process Safety Management	PSM
Refinery Operations	REF
Technical Exploration	TE
EHS – UK/EU Mandates	UKEU

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Health, Safety & Environment

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A5017 Emergency Action Plans, Alarm Systems, and Fire Prevention Plans is designed to help you meet the training requirements of OSHA 29 CFR 1910.38 and OSHA 29 CFR 1910.55. It covers what employees must do during an emergency to protect themselves, emergency alarms, evacuation procedures, fire hazards and fire protection equipment and systems. A5008 Hazwoper: Awareness Hazwoper: Awareness is designed to help you meet the training requirements of 29 CFR 1910.120. It covers information mandated by the standard, including what hazard materials are, and how to approach them during an incident. Also covered are methods for detecting and identifying hazardous materials and how to use the DOT emergency response guidebook. A5009 Hazwoper: Operations Hazwoper: Operations is designed to help you meet the training requirements of OSHA 29 CFR 1910.120(e). It covers information mandated by the standard, including hazard and risk assessment, how to select and use personal preture equirement, how to perform basic control, containment and confinement operations, and how to implement decontamination procedures. A5007 Hazwoper: Overview Hazwoper: Overview is designed to help you meet the training requirements of 29 CFR 1910.120. It covers information mandated by the standard including the requirements for different worker populations, how to determine if a release is covered by the standard, and emergency response to Hazwoper events. A5038 Incident Reporting and Investigation, you will learn about the steps for reporting any incidents and near misses. A5091 Office Fire Stafety Office Fire Stafety Office Fire Stafety This program is designed to help you respond safely and properly in the event of an office fire. You will learn how to operate an A-B-C fire extinguisher. Portable Fire Extinguishers: Non-Emergency Responder Portable Fire Extinguishers: Non-Emergency Responder This program is designed to help you meet the training requirements of OSHA 29 CFR 1910.157/18 (portable extinguishers have the standard includin		
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hazard and risk assessment, how to select and use personal protective equipment, how to perform basic control, containment and confinement operations, and how to implement decontamination procedures. A5007 Hazwoper: Overview Hazwoper: Overview is designed to help you meet the training requirements of 29 CFR 1910.120. It covers information mandated by the standard including the requirements for different worker populations, how to determine if a release is covered by the standard, and emergency response to Hazwoper events. A5038 Incident Reporting and Investigation and investigation, you will learn about the steps for reporting and investigation and investigation, you will learn about the steps for reporting and investigation and investigation, you will learn about the steps for reporting and investigation, you will learn about the steps for reporting and investigation, you will learn about the steps for reporting and investigation and investigation, you will learn about the steps for reporting and investigation, you will learn about the steps for reporting and investigation, you will learn about the steps for experiments of SPA 20 CFR 1910.157(g) for non-emergency response personnel. It covers information such as extinguishers is designed to help you meet the training requirements of EPA 40 CFR 112.7. Topics covered include how to operate and maintain equipment in a manner that prevents oil discharge and how to follow applicable pollution control laws. EENVIRONMENTAL A5071 American Chemistry C	3	EHS
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principles of Responsible Care and your responsibilities as a Responsible Care employee.		
employee.		
A5094 Environmental Awareness In Environmental Awareness, you will learn about important regulations and practices 1	1	EHS
which guide work in oil and gas process operations. You will learn about ways in which	_	
your work affects the environment.		
HAZARD COMMUNICATION	,	
A5019 Asbestos Asbestos is designed to help you meet the basic training requirements of OSHA 29 CFR 2	2	EHS
1910.1001(j)(7). Subjects include the health effects of exposure, use and storage of	-	5
asbestos, operations with exposure potential, engineering controls and work		
practices, respiratory protection and the medical surveillance program.		
	0.75	EHS
	5	
assessment coordinator, and training and recordkeeping requirements.		
Exposure determined. You will learn about worksite hazards, the role of the exposure		

Category: El Course #	Course Title	Description	Hrs	Lib
A5005	Benzene	Benzene is designed to help you meet the training requirements of OSHA 29 CFR 1910.1028. It covers information mandated by the standard, including hazard recognition, personal protection, sampling and monitoring, and medical surveillance. It also contains reference material on benzene safety, technical guidelines and the	2	EHS
A5070	Combustible Dust Hazards	medical program. The Combustible Dust Hazards program is designed to help you work safely with and around combustible dust in industry. You will learn about why combustible dust explosions occur and what you can do to prevent them.	1.5	EHS
A5048	Explosive and Flammable Chemicals	Explosive and Flammable Chemicals is designed to help you meet the training requirements of OSHA 29 CFR 1910.1200(h). You will learn about the elements of combustion and flammability, and you will also learn about safe work practices for explosives and flammables.	1.5	EHS
A5006	Hazard Communication	Hazard Communication is designed to help you meet the training requirements of 29 CFR 1910.1200(k). It covers information mandated by the standard including detailed training on the GHS, labels and safety data sheets, physical and health hazards, and working safely with hazardous chemicals.	2	EHS
A5035a	Hazards of Naturally Occurring Radioactive Materials (NORM)	This program is designed to help you understand the hazards associated with working with naturally occurring radioactive material (NORM). You will learn about the characteristics of NORM and safeguards.	1.5	EHS
A5029	Hydrogen Sulfide (H2S	Hydrogen Sulfide is designed to help you meet the basic training requirements of OSHA 29 CFR 1910.119. Topics covered include the dangers of hydrogen sulfide and protection methods.	1.5	EHS
A5045	Irritants, Corrosives, and Sensitizers	Irritants, Corrosives, and Sensitizers is designed to help you meet the training requirements of OSHA 29 CFR 1910.1200(h). You will learn about their characteristics, hazards, and methods of personal protection, including safe work practices.	1	EHS
A5035	Naturally Occurring Radioactive Materials (NORM)	This program is designed to help you understand the requirements of working with naturally occurring radioactive material (NORM). You will learn about the characteristics of NORM, the hazards and safeguards for working with NORM.	2.5	EHS
A5049	Nitrogen Safe Use and Handling	In Nitrogen Safe Use and Handling, you will learn how to work safely with nitrogen, including characteristics and health hazards of nitrogen. You will learn how to handle spills, fires and liquid nitrogen safely.	1	EHS
A5040	Occupational Exposure to 1,3-Butadiene	Occupational Exposure to 1,3-Butadiene is designed to help you meet the training requirements of OSHA 29 CFR 1910.1051. In this program, you will learn about the characteristics of 1,3-butadiene, its health effects, exposure limits, sources, personal protective equipment, air monitoring, and medical surveillance.	1	EHS
A5052	Occupational Exposure to Carcinogens	Occupational Exposure to Carcinogens is designed to help you meet the basic requirements of OSHA 29 CFR 1910.1003 for employees who work with carcinogens. You will learn about cancer, methods of controlling carcinogens, and ways to reduce your risk.	1.25	EHS
A5044	Occupational Exposure to Chlorine	Occupational Exposure to Chlorine is designed to help you meet the training requirements of 29 CFR 1910.119 for employees who work with and around chlorine. You will learn the characteristics and health hazards of chlorine and what personal protective equipment you should wear when working with or around chlorine.	0.5	EHS
A5072	Occupational Exposure to Formaldehyde	In Occupational Exposure to Formaldehyde, you will learn about the requirements of 29 CFR 1910.1048 for employees who work with formaldehyde, formaldehyde gas, or solutions and materials that release formaldehyde. You will learn how to reduce your exposure and how to respond to formaldehyde emergencies.	1	EHS
A5039	Occupational Exposure to Hexavalent Chromium	Occupational Exposure to Hexavalent Chromium is designed to help you meet the training requirements of OSHA 29 CFR 1910.1026. In this program, you will learn about the characteristics of hexavalent chromium, its health effects, exposure limits, sources, personal protective equipment, and air monitoring and medical surveillance requirements.	1	EHS
A5041	Occupational Exposure to Hydrochloric Acid	Occupational Exposure to Hydrochloric Acid is designed to help you meet the training requirements of OSHA 29 CFR 1910.119. In this program, you will learn about the characteristics of hydrochloric acid, its health effects, exposure limits, sources, and personal protective equipment.	0.5	EHS
A5053	Occupational Exposure to Lead	Occupational Exposure to Lead is designed to help you meet the requirements of 29 CFR 1910.1025. You will learn about the hazards of lead, the exposure limits, proper use of protective equipment, and the components of medical surveillance and removal.	1.25	EHS

Course #	Course Title	Description	Hrs	Lib
A5037a	Occupational Exposure to	Occupational Exposure to Respirable Crystalline Silica is designed to meet the	1.25	EHS
A3037a	Respirable Crystalline Silica	requirements of OSHA 29 CFR 1910.1053. It covers information mandated by the	1.25	ЕПЗ
	nespirable erystamile sinea	standard, including health effects, hazard recognition, exposure limits, personal		
		protection, and medical surveillance.		
A5037	Occupational Exposure to	Occupational Exposure to Respirable Crystalline Silica is designed to meet the	1.5	EHS
	Respirable Crystalline Silica	requirements of OSHA 29 CFR 1910.1053. It covers information mandated by the		
	- General Industry	standard, including health effects, hazard recognition, exposure limits, personal		
		protection, sampling and monitoring, and medical surveillance.		
A5043	Occupational Exposure to	Occupational Exposure to Sodium Hydroxide (Caustic Soda) is designed to help you	0.5	EHS
	Sodium Hydroxide (Caustic	meet the training requirements of OSHA 29 CFR 1910.119. In this program, you will		
	Soda)	learn about the characteristics of sodium hydroxide, its health effects, exposure limits,		
		sources, and personal protective equipment.		
A5033	Occupational Exposure to	Occupational Exposure to Sulfur Dioxide is designed to help you meet the training	0.5	EHS
	Sulfur Dioxide	requirements of 29 CFR 1910.119. In this program, you will learn about the		
		characteristics of sulfur dioxide, its health effects, exposure limits, sources, and		
		personal protective equipment.	<u> </u>	
A5042	Occupational Exposure to	Occupational Exposure to Sulfuric Acid is designed to help you meet the training	0.5	EHS
	Sulfuric Acid	requirements of 29 CFR 1910.119. In this program, you will learn about the		
		characteristics of sulfuric acid, its health effects, exposure limits, sources, and		
		personal protective equipment.		
	TRANSPORTATION			
A5076	DOT Drug and Alcohol	DOT Drug and Alcohol Testing is designed to help you meet the training requirements	1	EHS
	Testing	of 49 CFR 199, Subparts A, B, and C. In this program, you will learn about safety-		
		sensitive employees, the drug testing process and schedule, and consequences of		
		refusal and positive results.	 	=110
A5025	DOT Hazardous Materials	This program is designed to help you meet the training requirements of DOT 49 CFR	1	EHS
	Employee Safety	172.704. Topics include identifying hazardous materials, self-protection and		
AF026	DOT Hanned ave Materials	employer-provided protection methods, and emergency response procedures.	 	FLIC
A5026	DOT Hazardous Materials	DOT Hazardous Materials General Awareness is designed to help you meet the	3	EHS
	General Awareness	training requirements of DOT 49 CFR 172.704(a)(1). The program explains how to prepare shipping papers, how to use the DOT Hazardous Materials Table, how to		
		package and ship materials and how to safely load and unload hazardous materials.		
A5059	DOT Hazardous Materials	DOT Hazardous Materials Transportation Security Awareness is designed to help you	0.5	EHS
713033	Transportation Security	meet the training requirements of DOT 49 CFR 172.704 (a)(4). Topics include security	0.5	LIIJ
	Awareness	hazard awareness, safe work practices, and responding to threats.		
A5066	Export Compliance and	In Export Compliance and Global Trade Guidelines, you will learn about industry and	0.5	EHS
	Global Trade Guidelines	security regulations related to international commerce.		
A5073	Introduction to Hazmat	Employees at corporate offices are often tasked with preparing domestic or	2	EHS
	Transportation Regulations	international hazardous material/dangerous good shipments. Because of these		
		responsibilities, corporate employees must be familiar with international air and		
		marine rules, and DOT regulations used for air, water, highway, rail and intermodal		
		transportation domestically. This module is intended to provide an overview for an		
		office advisor or one who arranges or assists in arranging hazardous		
		materials/dangerous goods transportation.		
INDUSTRI	AL HYGIENE			
A5010	Access to Medical Records	Access to Medical Records is designed to help you meet the training requirements of	0.5	EHS
		29 CFR 1910.1020. It covers information mandated by the standard, including the		
		types of medical and exposure records and how to access this information.		
A5013	Eye and Face Protection	Eye and Face Protection is designed to help you meet the training requirements of	1.5	EHS
		OSHA 29 CFR 1910.133 and 1910.132(f). It covers information mandated by the		
		standard, including how eye and face injuries occur, and how the proper selection and		
		use of personal protective equipment can prevent injuries.	 	
A5078	Eye Wash and Safety	In Eye Wash and Safety Showers, you will learn about emergency wash stations	1	EHS
	Showers	including: chemical eye injuries, emergency showers, emergency eye wash stations,		
		hand held drench hoses, combination wash units, properly using emergency wash		
		stations.		

Course #	Course Title	Description	Hrs	Lib
A5002	Hearing Protection	Hearing Protection is designed to help you meet the training requirements of OSHA 29 CFR 1910.95(k). It covers information mandated by the standard, including how noise affects hearing; the components of the Hearing Conservation Program; selection, fitting, the use of hearing protection devices; and audiometric testing.	2	EHS
A5093	Industrial Hygiene	In Industrial Hygiene, you will learn about the roles and responsibilities of the Industrial Hygienist at your company. Most specifically, you will learn about how the Industrial Hygienist works within an occupational environment to respond to and control hazards.	1	EHS
A5011	Ionizing Radiation	lonizing Radiation is designed to help you meet the training requirements of 29 CFR 1910.1096. It covers information mandated by the standard, including safety problems associated with exposure to radiation, sources of ionizing radiation in the workplace, and procedures and devices which can minimize exposures.	1.5	EHS
A5015	Laboratory Safety	Laboratory Safety is designed to help you meet the training requirements of 29 CFR 1910.1450(f). It explains the contents of the Laboratory Standard and covers the properties of hazardous chemicals. It also covers safe work practices with laboratory chemicals and chemical hygiene plan development.	3	EHS
A5024	Occupational Exposure to Bloodborne Pathogens	This program is designed to help you meet the training requirements of OSHA 29 CFR 1910.1030. Topics covered include the symptoms of bloodborne diseases, transmission of bloodborne pathogens, the exposure control plan, recognizing potential exposure situations and personal protective equipment.	2	EHS
A5014	Personal Protective Equipment	Personal Protective Equipment is designed to help you meet the training requirements of OSHA 29 CFR 1910.132. You will learn about the proper use of PPE, and head, ear, eye, face, and body and hand protection.	1	EHS
A5001	Respiratory Protection	Respiratory Protection is designed to help you meet the training requirements of OSHA 29 CFR 1910.134(k). It covers information mandated by the standard including respiratory hazards, types of respirators, respirator selection, fitting and maintenance, medical surveillance, and respirator training and administration.	2	EHS
A5046	Toxic Chemicals	Toxic Chemicals is designed to help you meet the training requirements of OSHA 29 CFR 1910.1200(h) for employees who work with and around toxic chemicals. You will learn about the dangers of toxic chemicals and safe handling techniques.	1.5	EHS
A5047	Unstable and Reactive Chemicals	Unstable and Reactive Chemicals is designed to help you meet the training requirements of OSHA 29 CFR 1910.1200(h) for employees who work with and around unstable or reactive chemicals. You will learn about the dangers of unstable and reactive chemicals and safe handling techniques.	1.25	EHS
POWERED	O INDUSTRIAL EQUIPMENT			
A5023	Forklifts and Powered Industrial Trucks	Powered Industrial Trucks is designed to help you meet the training requirements of OSHA 29 CFR 1910.178. It covers information regarding powered industrial trucks including Forklifts, vehicle operations, and material operations.	1.5	EHS
A5056	Rigging, Slings and Crane Lifts	In Rigging, Slings and Crane Lifts, you will learn about safe lifting and rigging practices including planning a lift, proper rigging techniques, center of gravity, rigging hardware, safe working load, types of cranes, and hand signals. In addition, you will learn about the types of slings, hitches and chain hoists including slings and sling angles, hitches and slings, multiple leg hitches, sling storage and handling, and chain hoists. It is designed to help you meet the requirements of OSHA 29 CFR 1910.179, OSHA 29 CFR 1910.180, OSHA 29 CFR 1910.181, OSHA 29 CFR 1910.182, and OSHA 29 CFR 1910.68.	2.5	EHS
A5051	Vehicle-Mounted Elevated Work Platforms and Aerial Lifts	Vehicle-Mounted Elevated Work Platforms and Aerial Lifts is designed to help you meet the requirements of 29 CFR 1910.67. You will learn about preparing and operating the aerial lift to ensure your safety and the safety of those around you.	1	EHS
QUALITY	ASSURANCE AND CONTROL			
A5060	Jet Fuel Quality Control	Jet Fuel Quality Control is designed to meet the requirements set forth in Air Transport Association's Specification 103. You will learn about aviation fuel quality standards, working with aviation fuel equipment, and storage and testing requirements.	3	EHS
RCRA/HAZ	ZARDOUS WASTE MANAGEME	INT		
A50164	RCRA Emergency Response	RCRA Emergency Response is designed to help you meet the training requirements of 40 CFR 264.16. It covers contingency planning, the emergency coordinator, and emergency equipment and procedures.	0.75	EHS

Category: E Course #	Course Title	Description	Hrs	Lib
A50161	RCRA Generators	RCRA Generators is designed to help you meet the training requirements of 40 CFR	0.75	EHS
		264.16. It provides a general overview of the Resource Conservation and Recovery		
		Act and explains the specific duties of hazardous waste generators.		
A50162	RCRA Transporters	RCRA Transporters is designed to help you meet the training requirements of 40 CFR	0.5	EHS
	·	264.16. It explains the Hazardous Waste Manifest System and covers the duties of		
		hazardous waste transporters.		
A50163	RCRA Treatment, Storage,	RCRA Treatment, Storage, and Disposal Facilities is designed to help you meet the	0.5	EHS
	and Disposal Facilities	training requirements of 40 CFR 264.16. It explains the duties of hazardous waste		
	·	treatment, storage and disposal facilities.		
SAFE WO	RK PRACTICES			
A5089a	Accident Control	In this program, you will learn basic process facility accident control techniques,	3	EHS
, .50054	Techniques: Introduction	including handling materials safely, personal protective equipment, and fire		2.10
	. cominquest min cudetion	prevention.		
A5089b	Accident Control	In this program, you will learn basic process facility accident control techniques,	3	EHS
7.3003.0	Techniques: Safe Work	including precautions for working near processes, replacing safeguards, working with		Lilo
	Practices	plant machinery, equipment and vehicles.		
A5088	Accident Prevention	In this program, you will learn basics of accident prevention including causes of	1	EHS
713000	Accident revention	accidents, safe work habits, lifting and carrying loads, slips and falls, and personal	-	LIII
		protection equipment.		
A5081	Arc Flash Safety	In Arc Flash Safety, you will learn about the types and hazards arc flashes associated	0.75	EHS
A3001	Are riasii sarety	with electrical faults and arc flash protection including personal protective equipment	0.73	LIIS
		used to protect workers.		
A5003	Confined Space Entry	Confined Space Entry is designed to help you meet the training requirements of 29	2.5	EHS
A3003	Commed Space Littly	CFR 1910.146(k). It covers information mandated by the standard including hazard	2.5	LIIS
		identification, safe work practices, vessel entry permit, personal protection		
		equipment, entry procedures and exposure symptoms.		
A5065	Driving Safety	In Driving Safety, you will learn about safe driving techniques within a process facility,	1.5	EHS
A3003	Driving Safety	including facility transportation, handling techniques, and safe driving procedures.	1.5	LIIS
A5069	EHS Regulatory Overview	In this module, you will learn about U.S. environmental, health, safety, security,	1	EHS
A3003	Lits regulatory overview	transportation and product safety regulations that impact the process industry.	1 -	LIIS
A5021	Electrical Safety for	Electrical Safety for Qualified Employees is designed to help you meet the training	2	EHS
AJUZI	Qualified Employees	requirements of OSHA 29 CFR 1910.332. Topics covered include identifying energized	2	LIIS
	Qualified Employees	parts, testing for nominal voltage, grounding, personal protective equipment and safe		
		clearance distances.		
A5020	Electrical Safety for	Electrical Safety For Unqualified Employees is designed to help you meet the training	1.5	EHS
713020	Unqualified Employees	requirements of OSHA 29 CFR 1910.332. Topics covered include how electricity can	1.5	LIII
	onquamed Employees	hurt you, protective measures for working around motors and other energized		
		equipment, and procedures for inspecting and reenergizing electrical equipment.		
A5057	Excavation and Trenching	Excavation and Trenching is designed to help you meet the training requirements of	2.5	EHS
A3037	Excavation and Trenening	OSHA 29 CFR 1926.650. You will learn about the hazards of excavations and trenches	2.5	LIIS
		and how to protect yourself during digs.		
A5057a	Excavation and Trenching	In Excavation and Trenching for Operations Personnel, you will learn about the	2	EHS
A3037a	for Operations Personnel	hazards of excavations and trenches.	2	LIIS
A5022	Fall Prevention	Fall Prevention is designed to help you meet the basic training requirements of OSHA	2	EHS
AJUZZ	raii Frevention	29 CFR 1910.23 (c)(1) and OSHA 29 CFR 1926.503. The program identifies the various	2	LIIS
		types of fall hazards and shows you ways to reduce or eliminate the danger. Special		
		emphasis on selection and use of lanyards, full body harnesses and anchorage points.		
AE002	First Aid Dragaduras		2	FLIC
A5092	First Aid Procedures	This program is designed to help you respond safely and properly to events that	2	EHS
Λ E O O €	Hand and Dower Tool	require first aid treatment. In Hand and Power Tool Safety, you will the importance of hand and power tool safe	0.75	EHC
A5096	Hand and Power Tool		0.75	EHS
	Safety	work practices including selection, storage and proper personal protective		
A F 0 7 F	Hand Cafab.	equipment.	<u> </u>	FLIC
A5075	Hand Safety	Hand Safety is designed to help you meet the training requirements of 29 CFR	1	EHS
		1910.138. In this program, you will learn about hand hazards, hand tool safety,		
45055	Heat Street C. S.	machine guards, PPE, and how to complete a hazard assessment.	 	FILE
A5055	Heat Stress Safety	In Heat Stress Safety, you will learn how to work safely in a hot environment, including	0.5	EHS
		the physical effects and hazards of heat.	1	

Category: E Course #	Course Title	Description	Hrs	Lib
A5032	Helicopter Safety	Helicopter Safety is designed to help you meet the training requirements of OSHA 29 CFR 1910.183. You will learn how to safely approach, stow luggage, board and deboard a helicopter. The program also covers what you should do in emergency situations, emergency equipment found on helicopters, and how to properly don an aviation life vest.	1	EHS
A5030	Hot Work	Hot Work is designed to help you meet the training requirements of OSHA 29 CFR 1910.252. It covers information mandated by the standard including how to prepare a workspace for hot work and how to conduct firewatches to prevent incidences of fire or explosion.	1	EHS
A5031b	Industrial Ergonomics	In Industrial Ergonomics, you will learn what ergonomics is and how to prevent ergonomics-related injuries. You will learn about hand tool ergonomics and material handling ergonomics.	1.75	EHS
A5068	Ladder Safety	In this program, you will learn about the requirements for working safely with ladders as defined in OSHA 29 CFR 1926.1053. You will learn about the different types of ladders, using ladders safely, and the requirements for ladder inspection.	0.5	EHS
A5068a	Ladder Safety for Construction	In this program, you will learn about the requirements for working safely with ladders in construction as defined in OSHA 29 CFR 1926.1053. You will learn about the different types of ladders, using ladders safely, and the requirements for ladder inspection.	0.5	EHS
A5067	Line Breaking	In this program, you will learn about specific guidelines used to eliminate or minimize the extreme hazards associated with breaking into a line, vessel, or system.	0.5	EHS
A5012	Lockout/Tagout	Lockout/Tagout is designed to help you meet the training requirements of OSHA 29 CFR 1910.147(c)(7). It covers information mandated by the OSHA standard including sources of hazardous energy, isolating equipment and controlling stored energy, applying and removing lockout/tagout and group lockout/tagout.	2	EHS
A5079	Manual Handling and Lifting Techniques	In Manual Handling and Lifting Techniques, you will learn about the manual handling and lifting techniques including manual handling hazards, assessing manual handling risks, methods to control the risks, and best practices for safely performing manual handling and lifts for avoiding injuries.	1	EHS
A5031a	Office Ergonomics	In this program, you will learn about office ergonomics in the workplace. You will learn what ergonomics is and how to prevent ergonomics-related injuries when performing office work.	1.5	EHS
A5090	Office Safety	In Office Safety, you will learn guidelines for working safely and ergonomically to prevent hazards and injuries. You will also learn how to properly organize a computer workstation.	3	EHS
A5080	Offshore Water Safety	In Offshore Water Safety, you will learn about offshore rig hazards, safe work practices, and emergency action/response plan elements. You will also learn about emergency evacuation plans, personal flotation devices (PFDs), and lifeboats and life rafts.	1	EHS
A5054	Oxygen-Fuel Gas Welding and Cutting	Oxygen Fuel Gas Welding and Cutting is designed to help you meet the requirements of 29 CFR 1910.253. You will learn how to use oxygen-fuel equipment safely, how to protect yourself, and startup and shutdown procedures.	2	EHS
A5074	Process Safety and Fatigue Management	Process Safety and Fatigue Management is designed to help you meet the basic training requirements of ANSI/API's Recommended Practice 755. The module includes information regarding fatigue risks, shift work sleep disorder, and how to obtain quality sleep.	1	EHS
A5074a	Process Safety and Fatigue Management for Supervisors	Process Safety and Fatigue Management for Supervisors is designed to help supervisors meet the basic training requirements of ANSI/API's Recommended Practice 755. The module includes information regarding fatigue risks, shift work sleep disorder, and how to obtain quality sleep.	1	EHS
A5058	Scaffolding	Scaffolding is designed to help you meet the requirements of 29 CFR 1910.28. Topics include the safe use of scaffolds and scaffold requirements, including inspection criteria.	3	EHS
A5018	Specifications for Accident Prevention Signs and Tags	Specifications for Accident Prevention Signs and Tags is designed to help you meet the training requirements of OSHA 29 CFR 1910.145. Topics covered include identification of signs and tags, hazard determination, and precautions to take for personal protection as indicated by signs.	0.75	EHS

Course #	Course Title	Description	Hrs	Lib
A5027	Storage and Handling of Anhydrous Ammonia	Storage and Handling of Anhydrous Ammonia is designed to help you meet the training requirements of OSHA 29 CFR 1910.111. The program explains the hazards of anhydrous ammonia and shows you how to protect yourself by avoiding exposures and using personal protective equipment. The program also shows you the proper procedures to follow when storing and transferring anhydrous ammonia.	1.25	EHS
A5034	Toxic Substances Control Act (TSCA)	In Toxic Substances Control Act, you will learn about the EPA-administered Toxic Substances Control Act. This regulation is designed to control the hazards of chemical substances in production and prevent risks to public health and the environment.	0.5	EHS
A5077	Walking/Working Surfaces	Walking/Working Surfaces is designed to help you meet the training requirements of 29 CFR 1910.22 Subpart D. In this program, you will learn about working safely around walking and working surfaces.	0.65	EHS
A5095	Warehouse Safety	In Warehouse Safety, you will learn there are many potential hazards in warehouse operations that cause fatalities or injuries. This program identifies the more common hazards and risks involved with working in a warehousing environment including storage and rack systems; loading and unloading areas; material handling and storage hazards including manual lifting and forklift operations; and housekeeping hazards of personal protective equipment, hazard communication and slips, trips and falls.	1	EHS
A5058a	Working on Scaffolds	Working on Scaffolds covers the safe use of scaffolds and the hazards associated when working on a scaffold.	1.5	EHS
SECURITY	,			·
A5063	Security Training: All Personnel	Security Training: All Personnel is designed to help you meet the requirements of 33 CFR 105.210 and the Coast Guard's Homeland Security initiatives. You will learn about your security roles and responsibilities.	1	EHS
A5061	Security Training: Facility Security Officer Overview	Facility Security Officer Training is designed to help you meet the requirements of 33 CFR 105.205 and the Coast Guard's Homeland Security initiatives. You will learn about the roles and responsibilities of the Facility Security Officer.	2	EHS
A5062	Security Training: Security Personnel	Security Training: Security Personnel is designed to help you meet the requirements of 33 CFR 105.210 and the Coast Guard's Homeland Security initiatives. You will learn about your security roles and responsibilities.	2	EHS
A5064	Workplace Violence	Key to preventing workplace violence is understanding the risk factors that cause it. In this program, you will learn about the nature of workplace violence and the proper response to threats.	1	EHS

Health, Safety & Environment – UK/EU

Course #	Course Title	Description	Hrs	Lib
EMERGEN	CY PLANNING & RESPONSE			
UK-HSE-	Hazardous Waste Spill	In Hazardous Waste Spill Response, Containment and Decontamination, you will	3	UKEU
5009	Response, Containment	learn about hazard and risk assessment, how to perform basic control, containment		
	and Decontamination - UK	and confinement operations, how to implement decontamination procedures, and		
		how to select and use personal protective equipment		
UK-HSE-	Incident Reporting and	In Incident Reporting and Investigation, you will learn about the steps for reporting	0.5	UKEU
5038	Investigation - UK	any incidents and near misses.	0.5	OKLO
UK-HSE-	Office Fire Safety - UK	Office Fire Safety is designed to help you meet the training requirements of Health	1	UKEU
5091	office the safety or	and Safety at Work etc Act 1974. This program is designed to help you respond safely	_	OKLO
3031		and properly in the event of an office fire including how to operate the standard		
		office fire extinguisher.		
IIV UCE	Overview of Hazardous	In this program, you will learn about hazardous waste operations and emergency	1.5	LIVELI
UK-HSE-			1.5	UKEU
5007	Waste Operations and	response, including types of events, types of workers, incident command system, and		
	Emergency Response - UK	emergency response categories.	_	
UK-HSE-	Portable Fire Extinguishers	Portable Fire Extinguishers is designed to help you meet the training requirements of	2.5	UKEU
5004	- UK	HSE Regulatory Reform (Fire Safety) Order 2005. It covers information mandated by		
		the standard including design, operation, the various types of portable extinguishers,		
		firefighting techniques and types of fires and how to deal with each.		
UK-HSE-	Portable Fire Extinguishers:	Portable Fire Extinguishers: Non-Emergency Responder is designed to help you meet	1	UKEU
5004a	Non-Emergency Responder	the training requirements of HSE Regulatory Reform (Fire Safety) Order 2005. for		
	- UK	non-emergency response personnel. It covers information such as extinguisher		
		design, operation, and the various types of portable extinguishers.		
UK-HSE-	Spill Prevention, Control,	In Spill Prevention, Control, and Countermeasures, you will learn how to operate and	0.75	UKEU
5028	and Countermeasures - UK	maintain equipment in a manner that prevents oil discharge.		01120
		Thanks and a provide an allocations and a provide an allocation and a provide analysis and a provide an allocation and a provide analysis and a provide an allocation and a provide an allocation and	I	<u>I</u>
ENVIRONI		In Environmental Assessment Street and	١ ،	LIVELI
UK-HSE-	Environmental Awareness -	In Environmental Awareness, you will learn about important regulations and	2	UKEU
5094	UK	practices which guide work in oil and gas process operations. You will learn about		
		ways in which your work affects the environment, and measures your company takes		
		to safeguard the environment and dispose of waste properly.		
	OMMUNICATION		ı	ı
UK-HSE-	Asbestos - UK	Asbestos is designed to help you meet the basic training requirements of Control of	2	UKEU
5019		Asbestos Regulations 2012, Regulation 10. Subjects include the health effects of		
		exposure, use and storage of asbestos, operations with exposure potential,		
		engineering controls and work practices, respiratory protection and the medical		
		surveillance program.		
UK-HSE-	Assessing Occupational	Assessing Occupational Exposure is designed to help you meet the training	0.75	UKEU
5036	Exposure - UK	requirements of HSE Health and Safety at Work etc Act 1974. You will learn about	0.70	0.1.20
		how workplace exposure to hazardous materials is determined. You will learn about		
		worksite hazards, the role of the exposure assessment coordinator, and training and		
		recordkeeping requirements.		
UK-HSE-	Benzene - UK	Benzene is designed to help you meet the training requirements of Control of	2	LIVELI
	Benzene - OK		2	UKEU
5005		Substances Hazardous to Health Regulations 2002 (COSHH). It covers hazard		
		recognition, personal protection, sampling and monitoring, medical surveillance,		
		benzene safety, technical guidelines and the medical program.		
UK-HSE-	Explosive and Flammable	Explosive and Flammable Chemicals is designed to help you meet the training	1.5	UKEU
5048	Chemicals - UK	requirements of Health and Safety Executive Control of Substances Hazardous to		
		Health (COSHH). You will learn about the elements of combustion and flammability,		
		and you will also learn about safe work practices for explosives and flammables.		
UK-HSE-	Hydrogen Sulphide (H2S) -	Hydrogen Sulphide is designed to help you meet the basic training requirements of	1.5	UKEU
5029	UK	Health and Safety Executive Control of Substances Hazardous to Health (COSHH).		
		Topics covered include the dangers of hydrogen sulphide and protection methods.		
UK-HSE-	Irritants, Corrosives, and	Irritants, Corrosives, and Sensitizers is designed to help you meet the training	1	UKEU
5045	Sensitizers - UK	requirements of Health and Safety Executive Control of Substances Hazardous to	1	UKLU
JU4J	Jensinzers - UK			
		Health (COSHH). You will learn about their characteristics, hazards, and methods of personal protection, including safe work practices.		
	1	I DELSONAL DEGLECTION INCLUDING SATE WORK DEACTICES	1	



Category: U Course #	Course Title	Description	Hrs	Lib
UK-HSE-	Naturally Occurring	Naturally Occurring Radioactive Materials (NORM) is designed to help you meet the	2	UKEU
5035	Radioactive Materials	training requirements of Ionising Radiation Regulations 1999. You will learn about		01120
	(NORM) - UK	the characteristics of NORM, the hazards and safeguards for working with NORM.		
UK-HSE-	Nitrogen Safe Use and	Nitrogen Safe Use and Handling is designed to help you meet the training	1	UKEU
5049	Handling - UK	requirements of The Health and Safety at Work etc Act 1974 and the Management of		
		Health and Safety at Work Regulations 1999. You will learn how to work safely with		
		nitrogen, including characteristics and health hazards of nitrogen. You will learn how		
		to handle spills, fires and liquid nitrogen safely.		
UK-HSE-	Occupational Exposure to	Occupational Exposure to 1,3-Butadiene is designed to help you meet the training	1	UKEU
5040	1,3-Butadiene - UK	requirements of Health and Safety Executive Control of Substances Hazardous to		
	·	Health (COSHH) in accordance with MDHS 63/2. In this program, you will learn about		
		the characteristics of 1,3-butadiene, its health effects, exposure limits, sources,		
		personal protective equipment, air monitoring, and medical surveillance.		
UK-HSE-	Occupational Exposure to	Occupational Exposure to Carcinogens is designed to help you meet the training	1.25	UKEU
5052	Carcinogens - UK	requirements of Health and Safety Executive Control of Substances Hazardous to		31.23
		Health (COSHH) for employees who work with carcinogens. You will learn about		
		cancer, methods of controlling carcinogens, and ways to reduce your risk.		
UK-HSE-	Occupational Exposure to	Occupational Exposure to Chlorine is designed to help you meet the training	0.5	UKEU
5044	Chlorine - UK	requirements of Health and Safety Executive Control of Substances Hazardous to		31.23
		Health (COSHH) for employees who work with and around chlorine. You will learn the		
		characteristics and health hazards of chlorine and what personal protective		
		equipment you should wear when working with or around chlorine.		
UK-HSE-	Occupational Exposure to	Occupational Exposure to Formaldehyde is designed to help you meet the basic	1	UKEU
5072	Formaldehyde - UK	training requirements of Health and Safety Executive Control of Substances		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Hazardous to Health (COSHH). You will learn about the regulatory requirements for		
		employees who work with formaldehyde, formaldehyde gas, or solutions and		
		materials that release formaldehyde. In addition, you will learn how to reduce your		
		exposure and how to respond to formaldehyde emergencies.		
UK-HSE-	Occupational Exposure to	Occupational Exposure to Hexavalent Chromium is designed to help you meet the	1	UKEU
5039	Hexavalent Chromium - UK	training requirements of of Health and Safety Executive Control of Substances		
		Hazardous to Health (COSHH). In this program, you will learn about the		
		characteristics of hexavalent chromium, its health effects, exposure limits, sources,		
		personal protective equipment, and air monitoring and medical surveillance		
		requirements.		
UK-HSE-	Occupational Exposure to	Occupational Exposure to Hydrochloric Acid is designed to help you meet the training	0.5	UKEU
5041	Hydrochloric Acid - UK	requirements of The Management of Health and Safety at Work Regulations 1999		
		and Health and Safety at Work etc Act 1974. In this program, you will learn about the		
		characteristics of hydrochloric acid, its health effects, exposure limits, sources, and		
		personal protective equipment.		
UK-HSE-	Occupational Exposure to	Occupational Exposure to Lead is designed to help you meet the requirements of	1.25	UKEU
5053	Lead - UK	Health and Safety Executive Control of Lead at Work Regulations 2002. You will learn		
		about the hazards of lead, the exposure limits, proper use of protective equipment,		
		and the components of medical surveillance and removal.		
UK-HSE-	Occupational Exposure to	Occupational Exposure to Sodium Hydroxide (Caustic Soda) is designed to help you	0.5	UKEU
5043	Sodium Hydroxide (Caustic	meet the training requirements of Health and Safety Executive Control of Substances		
	Soda) - UK	Hazardous to Health (COSHH). In this program, you will learn about the		
		characteristics of sodium hydroxide, its health effects, exposure limits, sources, and		
		personal protective equipment.		
UK-HSE-	Occupational Exposure to	Occupational Exposure to Sulphur Dioxide is designed to help you meet the training	0.5	UKEU
5033	Sulphur Dioxide - UK	requirements of Health and Safety Executive Control of Substances Hazardous to		
		Health (COSHH). In this program, you will learn about the characteristics of sulphur		
		dioxide, its health effects, exposure limits, sources, and personal protective		
		equipment.		
UK-HSE-	Occupational Exposure to	Occupational Exposure to Sulphuric Acid is designed to help you meet the training	0.5	UKEU
5042	Sulphuric Acid - UK	requirements of Health and Safety Executive Control of Substances Hazardous to		
		Health (COSHH). In this program, you will learn about the characteristics of sulphuric		
	1	acid, its health effects, exposure limits, sources, and personal protective equipment.		

Category: U Course #	Course Title	Description	Hrs	Lib
UK-HSE-	Toxic Chemicals - UK	Toxic Chemicals is designed to help you meet the training requirements of Health and	1.5	UKEU
5046		Safety Executive Control of Substances Hazardous to Health (COSHH) for employees who work with and around toxic chemicals. You will learn about the dangers of toxic	2.0	0.1.20
UK-HSE-	Unstable and Reactive	chemicals and safe handling techniques.	1 25	LIVELL
5047	Chemicals - UK	Unstable and Reactive Chemicals is designed to help you meet the training requirements of Health and Safety Executive Control of Substances Hazardous to Health (COSHH) for employees who work with and around unstable or reactive	1.25	UKEU
		chemicals. You will learn about the dangers of unstable and reactive chemicals and safe handling techniques.		
INDUSTRIA	AL HYGIENE			
UK-HSE- 5010	Access to Medical Records - UK	Access to Medical Records is designed to help you meet the training requirements of the UK Health and Safety Executive. It covers information mandated by the standard, including the types of medical and exposure records and how to access this information.	0.5	UKEU
UK-HSE-	Eye and Face Protection -	Eye and Face Protection is designed to help you meet the training requirements of	1.5	UKEU
5013	UK	HSE Personal Protective Equipment at Work Regulations 1992. It covers information mandated by the standard, including how eye and face injuries occur, and how the proper selection and use of personal protective equipment can prevent injuries.		
UK-HSE-	Eye Wash and Safety	Eye Wash and Safety Showers is designed to help you meet the training requirements	1	UKEU
5078	Showers - UK	of Health and Safety at Work etc. Act 1974 and ANSI Z358.1-2009 established performance and use requirements. You will learn about emergency wash stations including: chemical eye injuries, emergency showers, emergency eye wash stations, hand held drench hoses, combination wash units, properly using emergency wash stations.	_	
UK-HSE-	Hearing Protection - UK	Hearing Protection is designed to help you meet the training requirements of Health	2	UKEU
5002	Treating Protection OK	and Safety Executive Control of Noise Work Regulations 2005. It covers information mandated by the standard, including how noise affects hearing; the components of the Hearing Conservation Program; selection, fitting, the use of hearing protection		OKEO
		devices; and audiometric testing.		
UK-HSE- 5093	Industrial Hygiene - UK	Industrial Hygiene is designed to help you meet the training requirements of HSE Health and Safety at Work etc Act 1974. You will learn about the roles and responsibilities of the Industrial Hygienist at your company. Most specifically, you will learn about how the Industrial Hygienist works within an occupational environment	1	UKEU
		to respond to and control hazards.		=
UK-HSE- 5011	Ionising Radiation - UK	Ionising Radiation is designed to help you meet the training requirements of Ionising Radiations Regulations 1999 Regulation 14. It covers information mandated by the standard, including safety problems associated with exposure to radiation, sources of ionizing radiation in the workplace, and procedures and devices which can minimize exposures.	1.5	UKEU
UK-HSE- 5015	Laboratory Safety - UK	Laboratory Safety is designed to help you meet the training requirements of Health and Safety Executive Control of Substances Hazardous to Health (COSHH) for employees who work with and around chemicals in laboratories. It explains the properties of hazardous chemicals, safe work practices with laboratory chemicals and a chemical hygiene plan development.	3	UKEU
UK-HSE- 5024	Occupational Exposure to Bloodborne Pathogens - UK	This program is designed to help you meet the HSE training requirements of the Health and Safety at Work etc Act 1974 and the Management of Health and Safety at Work Regulations 1999. Topics covered include the symptoms of bloodborne diseases, transmission of bloodborne pathogens, the exposure control plan, recognizing potential exposure situations and personal protective equipment.	2	UKEU
UK-HSE- 5014	Personal Protective Equipment - UK	Personal Protective Equipment is designed to help you meet the training requirements of HSE Personal Protective Equipment at Work Regulations 1992. You will learn about the proper use of PPE, and head, ear, eye, face, and body and hand protection.	1	UKEU
UK-HSE- 5001	Respiratory Protection - UK	Respiratory Protection is designed to help you meet the training requirements of COSHH 2002 and Personal Protective Equipment at Work Regulations 1992. It covers information mandated by the standard including respiratory hazards, types of respirators, respirator selection, fitting and maintenance, medical surveillance, and respirator training and administration.	2	UKEU

Course #	Course Title	Description	Hrs	Lib
POWERED	INDUSTRIAL EQUIPMENT			
UK-HSE-	Forklifts and Powered	Powered Industrial Trucks is designed to help you meet the training requirements for	1.5	UKEU
5023	Industrial Trucks - UK	HSE regarding lift trucks. It covers information regarding powered industrial trucks		
		including Forklifts, vehicle operations, and material operations.		
UK-HSE-	Rigging, Slings and Crane	In Rigging, Slings and Crane Lifts, you will learn about safe lifting and rigging practices	3	UKEU
5056	Lifts - UK	including planning a lift, proper rigging techniques, center of gravity, rigging		
		hardware, safe working load, types of cranes, and hand signals. In addition, you will		
		learn about the types of slings, hitches and chain hoists including slings and sling		
		angles, hitches and slings, multiple leg hitches, sling storage and handling, and chain		
		hoists. It is designed to help you meet the requirements of Lifting Operations and		
		Lifting Equipment Regulations 1998 (LOLER), Provision and Use of Work Equipment		
		Regulations 1998 (PUWER) and Management of Health and Safety at Work		
		Regulations 1999.		
UK-HSE-	Vehicle-Mounted Elevated	Vehicle-Mounted Elevated Work Platforms and Aerial Lifts is designed to help you	1	UKEU
5051	Work Platforms and Aerial	meet the requirements of the Work at Height Regulations 2005. You will learn about	_	ONLO
3031	Lifts - UK	preparing and operating the aerial lift to ensure your safety and the safety of those		
	Litts OK	around you.		
DDOCECC	CAFETY	around you.		
UK-HSE-		Warehouse Safety is designed to help you meet the training requirements of HSE	1	LIVELL
5095	Warehouse Safety - UK	Health and Safety at Work etc Act 1974. You will learn there are many potential	1	UKEU
3093				
		hazards in warehouse operations that cause fatalities or injuries. This program		
		identifies the more common hazards and risks involved with working in a warehousing environment including storage and rack systems; loading and unloading		
		areas; material handling and storage hazards including manual lifting and forklift		
		operations; and housekeeping hazards of personal protective equipment, hazard		
		communication and slips, trips and falls.		
	RK PRACTICES			1=
UK-HSE-	Confined Space Entry - UK	Confined Space Entry is designed to help you meet the training requirements of the	2.5	UKEU
5003		Health and Safety Executive Confined Space Regulations 1997. It covers information		
		mandated by the standard including hazard identification, safe work practices, vessel		
		entry permit, personal protection equipment, entry procedures and exposure		
	5.1.06	symptoms.		
UK-HSE-	Driving Safety - UK	Driving Safety is designed to help you meet the training requirements of HSE Health	1.5	UKEU
5065		and Safety at Work etc Act 1974. You will learn about safe driving techniques within a		
		process facility, including facility transportation, handling techniques, and safe driving		
	51 10	procedures.	-	
UK-HSE-	Electrical Safety for	Electrical Safety for Qualified Employees is designed to help you meet the training	2	UKEU
5021	Qualified Employees - UK	requirements of HSE Health and Safety at Work etc Act 1974. Topics covered include		
		identifying energized parts, testing for nominal voltage, grounding, personal		
LIK LICE	Flactor of Cafata fac	protective equipment and safe clearance distances.	4.5	LUZELI
UK-HSE-	Electrical Safety for	Electrical Safety For Unqualified Employees is designed to help you meet the training	1.5	UKEU
5020	Unqualified Employees - UK	requirements of HSE Health and Safety at Work etc Act 1974. Topics covered include		
		how electricity can hurt you, protective measures for working around motors and		
		other energized equipment, and procedures for inspecting and reenergizing electrical		
LIK LICE	Francisking and Translation	equipment.	2.5	LUZELI
UK-HSE-	Excavation and Trenching -	Excavation and Trenching is designed to help you meet the training requirements of	2.5	UKEU
5057	UK	Health and Safety Executive guidelines for excavations. You will learn about the		
TIK UCE	Fall Draventies - LW	hazards of excavations and trenches and how to protect yourself during digs.	_	LUZEL
UK-HSE-	Fall Prevention - UK	Fall Prevention is designed to help you meet the basic training requirements of Work	2	UKEU
5022		at Height br>Regulations 2005 (WAHR). The program identifies the various types of		
		fall hazards and shows you ways to reduce or eliminate the danger. Special emphasis		
1117 116=	First Aid B	on selection and use of lanyards, full body harnesses and anchorage points.	_	LUZE
UK-HSE-	First Aid Procedures - UK	First Aid Procedures is designed to help you meet the training requirements of HSE	2	UKEU
5092		Health and Safety at Work etc Act 1974. It is designed to help you respond safely and		
		properly to events that require first aid treatment.		
UK-HSE-	Hand Safety - UK	Hand Safety is designed to help you meet the training requirements of Health and	1	UKEU
5075		Safety at Work etc. Act 1974. In this program, you will learn about hand hazards,		
	1	hand tool safety, machine guards, PPE, and how to complete a hazard assessment.	Ī	

Course #	Course Title	Description	Hrs	Lib
UK-HSE-	Heat Stress Safety - UK	Heat Stress Safety is designed to help you meet the training requirements of HSE	0.5	UKEU
5055		Health and Safety at Work etc Act 1974. You will learn how to work safely in a hot		
		environment, including the physical effects and hazards of heat.		
UK-HSE-	Helicopter Safety - UK	Helicopter Safety is designed to help you meet the training requirements of Health	1	UKEU
5032		and Safety at Work etc Act 1974. You will learn how to safely approach, stow luggage,		
		board and de-board a helicopter. The program also covers what you should do in		
		emergency situations, emergency equipment found on helicopters, and how to		
		properly don an aviation life vest.		
UK-HSE-	Hot Work - UK	Hot Work is designed to help you meet the training requirements of The	1	UKEU
5030		Management of Health and Safety at Work Regulations 1999. You will learn how hot		
		work is defined, how to prepare a workspace for hot work and how to conduct fire		
		watches to prevent incidences of fire or explosion.		
UK-HSE-	Industrial Ergonomics - UK	Industrial Ergonomics helps you meet the training requirements required by the	1.75	UKEU
5031b		Health and Safety at Work etc Act 1974 and specified by HSE's Ergonomics and		
		Human Factors at Work. You will learn what ergonomics is, how to prevent		
		ergonomics-related injuries, hand tool ergonomics and material handling		
		ergonomics.		
UK-HSE-	Ladder Safety - UK	In this program, you will learn about the requirements for working safely with ladders	0.5	UKEU
5068		as required by HSE Work at Height Regulations 2005. You will learn about the		
		different types of ladders, using ladders safely, and the requirements for ladder		
		inspection.		
UK-HSE-	Line Breaking - UK	Line Breaking is designed to help you meet the training requirements of HSE Health	0.5	UKEU
5067		and Safety at Work etc Act 1974. In this program, you will learn about specific		
		guidelines used to eliminate or minimize the extreme hazards associated with		
		breaking into a line, vessel, or system.		
UK-HSE-	Lockout/Tagout - UK	Lockout/Tagout covers sources of hazardous energy, isolating equipment and	2	UKEU
5012		controlling stored energy, applying and removing lockout/tagout and group		
		lockout/tagout. It is designed to help you meet the training requirements of The		
		Electricity at Work Regulations 1989.		
UK-HSE-	Manual Handling and	Manual Handling and Lifting Techniques will help you meet the requirements of	1	UKEU
5079	Lifting Techniques - UK	Health and Safety at Work etc. Act 1974. You will learn about the manual handling		
		and lifting techniques including manual handling hazards, assessing manual handling		
		risks, methods to control the risks, and best practices for safely performing manual		
		handling and lifts for avoiding injuries.		
UK-HSE-	Office Ergonomics - UK	In this program, you will learn about office ergonomics in the workplace as required	1.5	UKEU
5031a		by the Health and Safety at Work etc Act 1974 and specified by HSE's Ergonomics and		
		Human Factors at Work. You will learn what ergonomics is and how to prevent		
	266 26	ergonomics-related injuries when performing office work.		
UK-HSE-	Office Safety - UK	Office Safety is designed to help you meet the training requirements of HSE Health	3	UKEU
5090		and Safety at Work etc Act 1974. You will learn guidelines for working safely and		
		ergonomically to prevent hazards and injuries. You will also learn how to properly		
UK-HSE-	Offshore Water Safety - UK	organize a computer workstation.	1	LIVELL
5080	Offshore water safety - OK	Offshore Water Safety is designed to help you meet the training requirements of Health and Safety at Work etc Act 1974. You will learn about offshore rig hazards,	1	UKEU
5080		safe work practices, and emergency action/response plan elements. You will also		
		learn about emergency evacuation plans, personal flotation devices (PFDs), and lifeboats and life rafts.		
UK-HSE-	Oxygen-Fuel Gas Welding	Oxygen Fuel Gas Welding and Cutting is designed to help you meet the requirements	2	UKEU
5054	and Cutting - UK	of Health and Safety at Work etc. Act 1974. You will learn how to use oxygen-fuel		OKLO
303 -		equipment safely, how to protect yourself, and startup and shutdown procedures.		
UK-HSE-	Process Safety and Fatigue	Process Safety and Fatigue Management is designed to help you meet the basic	1	UKEU
5074	Management - UK	training requirements of API's Recommended Practice 755 and Health and Safety at	•	CILLO
		Work etc Act 1974. The module includes information regarding fatigue risks, shift		
		work sleep disorder, and how to obtain quality sleep.		
UK-HSE-	Process Safety and Fatigue	Process Safety and Fatigue Management for Supervisors is designed to help	1	UKEU
5074a	Management for	supervisors meet the basic training requirements of API's Recommended Practice 755	•	CILLO
20.10	Supervisors - UK	and to meet the requirements of Health and Safety at Work etc Act 1974. The		
		module includes information regarding fatigue risks, shift work sleep disorder, and		
		how to obtain quality sleep.		
	I		ı	

Course #	Course Title	Description	Hrs	Lib
UK-HSE-	Specifications for Accident	Specifications for Accident Prevention Signs and Tags is designed to help you meet	0.75	UKEU
5018	Prevention Signs and Tags -	the training requirements of HSE The Health and Safety (Safety Signs and Signals)		
	UK	Regulations 1996. Topics covered include identification of signs and tags, hazard		
		determination, and precautions to take for personal protection as indicated by signs.		
UK-HSE-	Storage and Handling of	Storage and Handling of Anhydrous Ammonia is designed to help you meet the	1.25	UKEU
5027	Anhydrous Ammonia - UK	training requirements of Health and Safety Executive Control of Substances		
		Hazardous to Health (COSHH). The program explains the hazards of anhydrous		
		ammonia and shows you how to protect yourself by avoiding exposures and using		
		personal protective equipment. The program also shows you the proper procedures		
		to follow when storing and transferring anhydrous ammonia.		
UK-HSE-	Walking/Working Surfaces -	Walking/Working Surfaces is designed to help you meet the training requirements of	0.65	UKEU
5077	UK	The Work at Height Regulations 2005. In this program, you will learn about working		
		safely around walking and working surfaces.		
SECURITY				
UK-HSE-	Workplace Violence - UK	Workplace Violence is designed to help you meet the training requirements of HSE	1	UKEU
5064		Health and Safety at Work etc. Act 1974. Key to preventing workplace violence is		
		understanding the risk factors that cause it. In this program, you will learn about the		
		nature of workplace violence and the proper response to threats.		

Electrical Maintenance

Course #	Course Title	Description	Hrs	Lib
DRAWING	S AND DIAGRAMS			
A1186	Electrical System Basics and Diagrams	In Electrical System Basics, you will learn about electrical generation and transmission, system voltages, and building schematic diagrams; Single line drawings, electrical symbols, and logic symbols and gates; and low and medium voltage motor drives and drive circuits.	3	CC
ELECTRICA	L AND COMMUNICATION CA	ABLES	•	
PS-EIA- CDB-101	Cable Duct Banks and Trays	In Cable Duct Banks and Trays, you will learn about types of duct banks, cable tray configurations, cable tray applications, proper loading and support, wiring fill and space requirements, securing cables, and proper grounding and bonding.	1	EIAM
PS-EIA- CAB-101	Electrical Cables	In Electrical Cables, you will learn about the function of electrical conductors, characteristics of conductor materials, conductor construction, wiring size and rating, insulation materials, and grounding.	1	EIAM
PS-EIA- FOC-101	Fiber Optic Cable	In Fiber Optic Cable, you will learn about types of fiber optic cable, connectors, operation, joining optical fibers, common causes of optical loss, and fusion splicing.	1	EIAM
PS-EIA- PCB-101	Power Cables	In Power Cables, you will learn about the different types of power cables, wire characteristics, properties, and sizes; insulation, cable glands, cabling systems and installations; power cable maintenance, repair, troubleshooting, and testing.	3	EIAM
ELECTRICA	L FUNDAMENTALS			,
PS-EIA- BED-101	Basic Electronics	In Basic Electronics, you will learn about basic electricity; basic electronics, including voltage, ground, current, resistors, capacitors, and inductors; electrical circuits, including Ohm's and Kirchhoff's Laws; current, voltage, and power; series and parallel DC circuits, transistors and capacitors.	1.5	EIAM
PS-EIA- EDO-101	Electrical Documentation	In Electrical Documentation, you will learn about types of electrical documentation, electrical loop numbers and symbols; power distribution and cable layout diagrams; control/schematic diagrams; protection and hazardous area diagrams; updating, storing, and controlling diagrams.	1.5	EIAM
A1620	Electrical Fundamentals	The first section of Electrical Fundamentals describes units of electrical measurement, states Ohm's law and shows some of its uses, and describes and shows differences between series and parallel circuits. This section also shows some of the effects of resistance in series and parallel circuits, the use of resistance as voltage dividers, and ways to produce and make use of voltage drop. Next, the program describes how a magnetic field is produced and how magnetic fields are used in motors, measuring devices, and as resistors in electrical circuits and devices. You will also learn about the effects produced by alternating current, which describes alternating current, voltage and current phases, self-inductance, inductive reactance, the use of capacitors in AC circuits, and the use of induction coils as transformers. The program concludes with basic electronics, which briefly describes diodes and transistors and shows how they are used to rectify current and amplify electrical signals. This section also introduces simple transistor circuits and describes the use of capacitors in such circuits.	4	СС
PS-MSO- ESB-101	Electrical System Basics and Diagrams	In Electrical System Basics, you will learn about electrical generation and transmission, system voltages, and building schematic diagrams; Single line drawings, electrical symbols, and logic symbols and gates; and low and medium voltage motor drives and drive circuits.	3	MSO
PS-MSO- ESP-101	Electrical System Protection	In Electrical System Protection, you will learn about electrical cables, conductors, and grounding; circuit protection, including causes of overcurrent, fuses, circuit breakers and protection relays, switchgear and contactors; and emergency power supplies, including batteries and generators, uninterruptible power supply configuration, and emergency generators.	3	MSO
PS-EIA- GRD-101	Grounding	In Grounding, you will learn about different types of grounding systems, equipment and static grounding, lightning protection, bonding techniques, electronic system and substation grounding; ground fault monitoring, inspecting grounding and bonding systems; and tracing ground faults.	3	EIAM



Course #	Course Title	Description	Hrs	Lib
A1185	Understanding Electricity	In Understanding Electricity, you will learn how to safely work with electricity. You will learn about basic electrical terms, the effect of electric current on the human body, and why electricity is a potential hazard. Additionally, you will learn about grounding electrical equipment, the proper precautions you must take when working with electrical equipment, and how to act in an emergency. The Electric Power Distribution System section describes how electric power is distributed from a generating plant to a lease. Finally, you will learn about measuring electric usage, including units of measurement and how to read a meter.	4	СС
MOTORS			1	
A1081	AC Motors for Operators	Designed for Operations Personnel, AC Motors describes how a motor changes the energy of electric current into mechanical power. This program describes how electric current produces magnetism and magnetism induces electric current. You will learn how motors are designed so that the attracting and repelling of magnetic fields sets up rotation of the shaft. Also covered is the starting and running characteristics of AC motors, and the speeds and horsepower of AC motors. The section on motor control describes starting and stopping mechanisms for AC motors, protective devices that may be found on motor controllers, and safety devices. You will learn proper procedures for starting, running, and stopping the motor. Finally, the program describes lubrication and maintenance procedures, and types of motor enclosures.	5	СС
PS-MNT- CMO- 101	Condition Monitoring - Electrical Motors	In Condition Monitoring - Electrical Motors, you will learn about induction and DC motor related problems including SCR problems, DC Comparator cards, and vibration analysis.	1	EIAM
PS-EIA- EMO- 101	Electrical Motor Properties, Troubleshooting and Maintenance	In Electrical Motor Properties, Troubleshooting and Maintenance, you will learn about common properties; voltage selection factors, insulation and thermal properties, enclosures and bearings; routine and preventive maintenance, and troubleshooting.	5	EIAM
PS-EIA- EMO- 102	Introduction to AC/DC Electrical Motors for Technicians	In Introduction to AC/DC Electrical Motors, you will learn about magnetism, producing alternating current, rotating magnetic fields, types of AC motors and AC motor properties; DC motor types and operation.	3	EIAM
PS-MSO- MCC-101	Motor Control Centers (MCCs)	In Motor Control Centers (MCCs), you will learn about motor control and motor control centers (MCC) including MCC common components of vertical sections, enclosure types, NEMA phase arrangement, MCC rating, overcurrent protection devices (fuses and circuit breakers), wiring classes and combination motor control units; motor starters including full-voltage and soft starters; variable frequency drives and programmable logic controllers.	1	MSO
PS-EIA- MSA-101	Motor Signature Analysis (MCE)	In Motor Signature Analysis (MCE), you will learn about MCE functionality and detectable faults; test data analysis information, such as resistance-to-ground, setting warning levels, DC assets, RTG readings interpretation, capacitance-to-ground, phase-to-phase resistance and inductance, test lead check, resistive and inductive imbalance, average inductance, polarization index test, PI and DA data interpretation, rotor position an aliasing, data interpretation, and DC bar-to-bar test; and MCE troubleshooting.	3	EIAM
PS-MNT- VFD-101	Variable Speed and Frequency Drives (VFD/VSD)	In Variable Speed and Frequency Drives, you will learn about the advantages of VFD & VSDs, AC drives and motor selection, DC drives, shunt connected motors, field saturation, operator control and control signals; typical problems and maintenance; SMART troubleshooting procedures and tests.	2.5	EIAM
OIL FIELD	ELECTRICAL EQUIPMENT			
A1540c	Oil Field Electricity: Conservation and Classification	Oilfield Electricity is a series of four learning programs that introduce electrified lease equipment, some of the problems associated with its operation, and some of the ways used to reduce electrical consumption on a lease. Conservation and Classification discusses ways of conserving electrical energy and reducing the electric bill on a lease. The program also classifies lease areas according to fire and explosion hazards, outlines the National Electrical Code's classifications of hazardous lease areas, and why electrified equipment must meet rigid specifications for use in these classified areas.	2	СС

Course #	Course Title	Description	Hrs	Lib
A1540b	Oil Field Electricity: Electrified Equipment	Oilfield Electricity is a series of four learning programs that introduce electrified lease equipment, some of the problems associated with its operation, and some of the ways used to reduce electrical consumption on a lease. Electrified Equipment looks at the various electrified operations equipment found on leases, what equipment problems you should look for and report, and what equipment must be routinely inspected and maintained. The program also covers how electrified switches and corrosion protection help control potential sources of lease pollution.	3	СС
A1540a	Oil Field Electricity: Fundamentals	Oilfield Electricity is a series of four learning programs that introduce electrified lease equipment, some of the problems associated with its operation, and some of the ways used to reduce electrical consumption on a lease. In Fundamentals, you will learn how to safely work with electricity. You will learn about basic electrical terms, the effect of electrical current on the human body, and why electricity is a potential hazard to lease personnel. Additionally, you will learn about grounding electrical equipment, the proper precautions you must take when working with electrical equipment, and how to act in an emergency. A section called Electric Power Distribution System describes how electrical power is distributed from a generating plant to a lease. Also, the kind of distribution equipment found on a lease is reviewed. Finally, you will learn about measuring electrical usage, including units of measurement and how to read a meter.	4	СС
A1541	Oil Field Electricity: Offshore Oil Field Electricity	Oilfield Electricity is a series of four learning programs that introduce electrified lease equipment, some of the problems associated with its operation, and some of the ways used to reduce electrical consumption on a lease. Offshore Oilfield Electricity covers the basics of area classifications, power system components and controls on an offshore platform, and safe operation of electrical equipment. The program is designed to familiarize offshore operators and other personnel with the electrical systems on a platform and prepare them to recognize and report any problems with the electrical equipment.	3	СС
POWER SY	STEMS			
PS-EIA- BAT-101	Batteries	In Batteries, you will learn about battery components, types of cells, series and parallel connections, battery capacity and ratings, lead acid and Ni-Cad batteries; battery system performance; failure analysis and dual battery backup systems, system testing methods; preventive maintenance and safety concerns; and failure modes and system troubleshooting.	5	EIAM
PS-EIA- CPB-101	Capacitor Banks	In Capacitor Banks, you will learn about capacitor theory, including capacitive resistance, power triangle, and power factor correction; harmonic distortion, resonance, and filters; power factor correction capacitor (PFCC) degradation; and capacitor bank maintenance and troubleshooting.	2	EIAM
PS-EIA- PDT-101	Power and Distribution Transformers	In Power and Distribution Transformers, you will learn about basic transformer operation, types, components, connections, and operational parameters; transformer cooling; schematic symbols; and maintaining and troubleshooting low-, medium-, and high-voltage power transformers.	2	EIAM
PS-EIA- PDT-102	Transformer Maintenance	In Maintenance for Power and Distribution Transformers, you will learn about maintaining and troubleshooting low-, medium-, and high-voltage power transformers.	1.5	EIAM
PS-EIA- UPS-101	Uninterruptible Power Supply	In Uninterruptible Power Supply, you will learn about emergency and standby power systems, emergency power requirements, critical and essential load; UPS types and operation; DC UPS, UPS batteries, battery ratings and failures; maintenance and functional load testing; and UPS troubleshooting.	3	EIAM
SWITCHGE				
PS-EIA- ARC-101	Arc Flash Causes and Mitigation	In Arc Flash, you will learn about arc flashes associated with electrical faults, personal protective equipment used to protect workers from arc flashes, and different switchgear including vacuum, air, gas and oil circuit breakers used to minimize the damage caused by contact arcing.	2	EIAM
PS-EIA- CBR-101	Circuit Breakers	In Circuit Breakers, you will learn the basics of overcurrent protection, types of fuses and voltage level classifications; different types of circuit breakers, their rating and operation; and maintaining, monitoring, inspecting, and troubleshooting low voltage air and medium voltage vacuum power circuit breakers.	4	EIAM
PS-MSO- ELC-101	Electrical Load Centers and Panelboards	In Electrical Load Centers and Panelboards, you will learn about Load Centers used in residential and light commercial applications including construction; main breaker, main lug only, and branch circuit breakers; power supply systems of 3-wire, 3-phase and 4-wire types; and load center grounding requirements.	1	MSO

Category: Electricity and Electrical Equipment

Course #	Course Title	Description	Hrs	Lib
PS-EIA-	Gas Insulated	In Gas Insulated Substations (GIS) and Sulfur Hexafluoride (SF6), you will learn about GIS,	2.5	EIAM
GHS-101	Substations (GIS) and	sulfur hexafluoride (SF6) properties, testing metrics, proper handling of faulted and non-		
	Sulfur Hexafluoride (SF6)	faulted SF6; leak detection methods, and recordkeeping.		
PS-EIA-	High Voltage Gas	In High Voltage Gas Insulated Switchgear (GIS), you will learn about high voltage circuit	2	EIAM
GIS-101	Insulated Switchgear	switchers, circuit switcher construction, operating principles, safety, preventive		
	(GIS)	maintenance; SF6 properties and handling; PPE and safety equipment, typical failures,		
		and troubleshooting.		
PS-EIA-	High Voltage Substation	In High Voltage Substation Switchgear, you will learn about substation switchgear and	2	EIAM
HSS-101	Switchgear	circuit breaker control, types of HV circuit breakers, HV relay protection, switchgear		
		classification and operation, switchgear maintenance, handling SF6, and troubleshooting		
50 514		HV switchgear.		
PS-EIA-	Lightning Arrester	In Lightning Arresters, you will learn about lightning surges and strikes; lightning	3	EIAM
LAR-101		protection and arresters, including classes and types of lightning arresters; grounding		
		and installation guidelines; basic safety precautions; and lightning arrester troubleshooting.		
PS-EIA-	Low Voltage Substation	In Low Voltage Substation Switchgear, you will learn about switchgear terminology and	3	EIAM
LVS-101	Switchgear	construction, including indoor and outdoor switchgear, bus bars, metering, circuit	3	EIAIVI
LV3 101	Switchgear	breakers, and wiring; switchgear operation, preventive maintenance, typical failures, and		
		general guidelines for troubleshooting.		
PS-EIA-	LV Intelligent Switchgear	In LV Intelligent Switchgear, you will learn about low voltage intelligent switchgear	3	EIAM
LVI-101		components, monitoring functions and preventive maintenance; MCU parameterization,		
		failure codes, and terms and abbreviations; LV switchgear and communications		
		troubleshooting.		
PS-EIA-	Medium Voltage	In Medium Voltage Substation Switchgear, you will learn about types of switchgear and	3	EIAM
MVS-101	Substation Switchgear	typical layouts, medium voltage operation, component functions, maintenance, and		
		troubleshooting.		
PS-EIA-	Medium Voltage	In Medium Voltage Vacuum Contactors, you will learn about types of switches,	2	EIAM
MVV-	Vacuum Contactors	disconnectors, contactors, circuit breakers, vacuum contactors and principles of		
101		operation; preventive maintenance and integrity testing; and basic troubleshooting		
		guidelines.		
PS-EIA-	Protective Relays	In Protective Relays, you will learn about electrical system problems, types of protective	3	EIAM
PRE-101		relays, sensing equipment, transformers, relay numerical function types, protection		
		schemes and strategies; zones of protection and feeder circuits; setting and adjusting		
		protective relays, and troubleshooting electromechanical and electronic protective relay		
		systems.		

Gas Processing Operations

Course	Course Title	Description	Hrs	Lib
DEHYDRATIO	ON			
PS-MSO-	Glycol Sampling and	In Glycol Sampling and Testing, you will learn about visual checks, glycol sampling	1	MSO
GST-101	Testing	properties, and normal ranges and testing frequency.		
PS-MSO-	Dewpoint	In Dewpoint Testing/Requirements, you will learn about hydrocarbon and water	1	MSO
DPT-101	Testing/Requirements	dew points, dew point control, how dew point is measured, and dewpoint testing		
		accuracy.		
A1585	Glycol Dehydration	In Glycol Dehydration, you will learn about water vapor, the process of glycol	5	CC
		dehydration, measuring water content, monitoring equipment, and testing and		
		operations.		
PS-MSO-	Glycol Dehydration	In Glycol Dehydration Equipment and Operation, you will learn about the glycol	1	MSO
GDO-101	Equipment and Operation	dehydration process, contactor and regeneration main equipment, and the		
		process variables that affect glycol dehydration operation.		
PS-MSO-	Glycol Injection System	In Glycol Injection System Operation, you will learn about the function of	0.5	MSO
GIS-201	Operation	monoethylene glycol (MEG), glycol loss, scaling and fouling, hydrocarbon		
		carryover; glycol regeneration operation, including stripping gas, reflux ratio		
		control, salt contamination, increasing separation efficiency, plant turndown, and		
42500	Malagulau Cia	foam control.	2	CD
A2508	Molecular Sieve	In Molecular Sieve Dehydration, you will learn about solid bed adsorption and	2	GP
	Dehydration	molecular sieve dehydration including the purpose, function, and types of solid bed adsorbents, the advantages and process of mol sieve dehydration, and how to		
A2505	Solid Bed Adsorption and	troubleshoot solid bed adsorption. In Solid Bed Adsorption and TEG Dehydration, you will learn about gas dehydration	4	GP
A2303	TEG Dehydration	strategies, including solid bed adsorption, mol sieve dehydration, and TEG gas	4	GP
	TEG Denyuration	dehydration.		
PS-MSO-	Solid Desiccants	Solid desiccants adsorb water from process gas streams. In Solid Desiccants, you	1	MSO
SLD-101	John Desicearies	will learn about solid desiccant adsorption, types of solid desiccants and how they	-	14130
313 101		are selected, and modes of operation.		
FRACTIONA	TION	and decided and models of operations	1	
PS-MSO-	Condensate Stabilization	In Condensate Stabilization System, you will learn about condensate formation,	1	MSO
CSS-201	System	specifications, stabilization, process flow, and process temperature control.	-	14130
PS-MSO-	Fractional Distillation	In Fractional Distillation Process Fundamentals, you will learn about distillation and	2	MSO
FDF-201	Process Fundamentals	vapor pressure, the fractional distillation process, distillation columns and process	-	14130
		flow, feed and reflux, process equipment and tray design; NGL fractionation, the		
		NGL temperature/pressure relationship, and methane, propane, and butane		
		separation.		
A2504	Fractionation in Gas	In Fractionation in Gas Processing, you will learn about the process of fractionation	4	GP
	Processing	during gas processing, consequences of deviation, and how to regulate tower		
		temperature and pressure.		
PS-MSO-	Heat Medium and Hot Oil	In Heat Medium and Hot Oil Systems, you will learn about the function of heat	1	MSO
HMO-101	Systems	medium systems and hot oil systems, including heat medium distribution, heater,		
		surge tank, pumps, and filter; direct fired heat components, including fuel supply,		
		burners, pilot, burner management system (BMS), and draft and dampers.		
PS-MSO-	Heat Medium System	In Heat Medium System Operation, you will learn about Heat medium systems,	0.5	MSO
HMS-101	Operation	routine operator checks, the heat medium heater, and plant startup and shutdown		
		requirements.		
PS-MSO-	High Pressure Gas Sampling	In High Pressure Gas Sampling, you will learn about the purpose of gas sampling,	1.5	MSO
HPG-201		accuracy requirements; types of high pressure sampling containers, including		
		constant pressure and floating piston high pressure cylinders; sampling station		
		parts and connections; and taking a high pressure sample.		
PS-MSO-	High Pressure Liquid	In High Pressure Liquid Sampling, you will learn about critical aspects of sampling,	2	MSO
HPL-201	Sampling	spot and composite samples, sample containers; sampling methods, including fluid		
		displacement, floating piston, and purge methods; and high pressure liquid sample		
		shipping.		
PS-MSO-	Liquid Storage Systems	In Liquid Storage Systems, you will learn about natural gas liquid storage systems	1	MSO
LSS-101		including cavern storage, tank storage, high pressure bullet storage, and tube		
		storage.		



Category: Gas Processing Operations

Course	Course Title	Description	Hrs	Lib
PS-MSO-	Methanol Injection	In Methanol Injection, you will learn about gas hydrates, the properties of	0.75	MSO
MIN-101	Wictianormjection	methanol, typical methanol injection systems and the effect of methanol on other	0.75	14130
		systems.		
PS-MSO-	Propane Refrigeration	In Propane Refrigeration Units and Low Temperature Separators (LTS), you will	1	MSO
PRU-201	Units and Low	learn about refrigeration process equipment, including compressors, condensers,		
	Temperature Separators	economizers and subchillers; chillers, and low temperature separators.		
	(LTS)			
PS-MSO-	Recycle Compressor	In Recycle Compressor Operation, you will learn about recycle compressor	1	MSO
REC-201	Operation	function; drivers and recycle compressor operation, including pre-start checks and		
		starting sequence; compressor and motor controls; and recycle compressor		
		maintenance.		
PS-MSO-	Reflux in Fractionation	In Reflux in Fractionation Operations, you will learn about factors affecting	1	MSO
REF-101	Operations	distillation, column operations, including feed, vapor flow, and process upsets; tray		
		design, and reflux flow and separation efficiency, including reflux ratio and		
		operating considerations.		
PS-MSO-	Sales Gas Compressor	In Sales Gas Compressor Operation, you will learn about types of sales gas	1	MSO
SGC-201	Operation	compressors, including double-acting reciprocating and centrifugal compressors;		
		types of drivers; pre-start, startup, shutdown, and emergency shutdown		
		procedures; and compressor maintenance.		
PS-MSO-	Sales Gas Compressor	In Sales Gas Compressor Types, Use and Limitations, you will learn about	1	MSO
SGC-202	Types, Use and Limitations	advantages and limitations of centrifugal, reciprocating, and rotary screw		
		compressors, along with dynamic and positive displacement compressor capacity		
PS-MSO-	Sales Gas Filter	control.	1	NACO
SGF-201	Replacement	In Sales Gas Filter Replacement, you will learn about the function of a coalescing sales gas filter, typical installation, filter replacement and return to service.	1	MSO
PS-MSO-	Tower Fouling and	In Tower Fouling and Corrosion Cleaning, you will learn about natural gas	1	MSO
TCC-201	Corrosion Cleaning	fractionating tower chemical cleaning, symptoms of corrosion or fouling, chemical	1	IVISO
100 201	Corrosion cicaning	treatments, corrosion and fouling control, and chemical cleaning procedures.		
INU ET CEDA	PATION	treatments, corresion and roaming control, and eleminar creatming procedures.	ı	
PS-MSO-	Coalescing Filters	In Coalescing Filters, you will learn about the process of coalescence, types of	1	MSO
CFL-101	Coalescing Filters	coalescers, sales gas coalescers, mechanical and electrostatic coalescers.	1	IVISO
PS-MSO-	Manifold Systems	In Manifold Systems Overview, you will learn about types of manifolds; metering	1	MSO
MNF-101	Overview	stations and meter proving; and types of meters, including turbine, positive	1	14130
		displacement, Coriolis, ultrasonic gas, and thermal mass flow meters.		
PS-MSO-	Produced Water Treatment	In Produced Water Treatment, you will learn about produced water composition;	2	MSO
PWT-101		conventional water treatments, including oil-water separators, dissolved and		
		induced gas flotation units, hydrocyclones and centrifuges, aeration, oxidation,		
		adsorption and soluble organics removal; as well as advanced water treatment		
		methods, such as ion exchange, mechanical evaporation (distillation), and		
		membrane processes (ED and EDR).		
LIQUIFIED N	IATURAL GAS NEW SERIES			
A2512	H2S Scavenger	This e-learning module discusses the concepts of non-regenerable vs regenerable	3	MSO
		adsorption processes, explains the differences between physisorption vs		
		chemisorption and demonstrates when a non-regenerable H2S scavenger (throw-		
		away) adsorbents can be used in the natural gas processing facility. An overview of		
		the commercial adsorbents is also discussed. The module discusses the most		
		common process line-up, single vessel or lead/lag process, advantages and		
		disadvantages of scavenger adsorption process, and addresses the most common		
10511	1110 1150/0 15	operational issues of such scavenger applications.	•	1.00
A2511	LNG and LPG (Gas) Carrier	LNG and LPG Carrier Loading is intended for operators and technicians working in	3	MSO
	Loading	an LNG export facility. Some LNG facilities co-produce liquefied petroleum gas,		
		thus the facilities for loading LPG carriers are described. The system from LNG tank		
		to ship, the equipment involved, and the recovery of vapors returned from the		
		ship is described. The number and type of loading arms are covered as is loading arm operations such as connecting to ships, cooling, and draining operations.		
		Essential safety features such as ship-to-shore interfaces, loading system		
		emergency shut down, and loading system surge protection are addressed.		
	1	cincipency snat down, and loading system surge protection are addressed.	I	

Category: Gas Processing Operations

Course	Course Title	Description	Hrs	Lib
A2513	LNG Cargo Carriers	In this course you will learn about the ship side perspective of the LNG cargo carrier. Trends in LNG Shipping, and the importance of marine transport in the LNG value chain. You will become familiar with the LNG carrier fleet, different ship types and containment systems. You will learn about specific LNG cargo handling equipment, LNG prolusion systems and cargo operations. You will also learn about marine issues, carrier management and loading and unloading guidelines.	3	MSO
A2509	LNG Refrigeration and Heat Exchange	LNG Refrigeration and Heat Exchange is intended for operators and technicians working in a liquefied natural gas (LNG) export facility. This course answers the question "what is LNG?" and introduces the concept of refrigeration to achieve temperatures low enough to liquefy natural gas. The commonly used Propane Precooled Mixed Refrigerant process is examined in detail. Using propane refrigeration as an example, the course teaches the principles of refrigeration. The major equipment items in the flow scheme, compressors, machines, heat exchangers, and vessels, are examined in detail.	3	MSO
A2510	LNG Storage	LNG Storage is intended for operators and technicians working in any facility on which LNG is stored. Using the example of an LNG export facility, LNG storage tanks are described in terms of construction and operation. Different types of storage tanks and the properties of the stored LNG are presented. LNG storage tank primary connections are discussed. Equipment associated with the LNG tanks is described – loading pumps, boiloff gas system, boil off gas compression and the integration of this with fuel gas.	2	MSO
A2503	Turboexpander NGL Extraction	Turboexpander NGL Extraction is intended for operators and technicians working in a facility where natural gas liquids (NGL) are extracted from natural gas. The course teaches the purpose of a turboexpander NGL extraction operation, describes why this type of process is used and explains the function and operation of the different parts of the process. The concept of product recovery for NGL products is introduced.	3	MSO
PHASE BEH	IAVIOR	'		
A2501	Hydrocarbon Phase Behavior and Vapor-Liquid Equilibrium	In Hydrocarbon Phase Behavior and Vapor-Liquid Equilibrium, you will learn about the phase behavior, vapor-liquid equilibrium, the water content of gas, and hydrates.	4	GP
PROCESS O	OVERVIEW			
A2500	Introduction to Gas Processing for Operations	In Introduction to Gas Processing, you will learn about gas processing hydrocarbons and about the equipment and process for gas conditioning and processing.	3	GP
SAFE WOR	K PRACTICES			
A2507	Gas Processing Hazards	In Gas Processing Hazards, you will learn about hazards within a typical gas processing facility.	4	GP
SWEETENII				
A2506	Amine Sweetening Process	In the Amine Sweetening Process program, you will learn about amine sweetening, absorption in amine sweetening, primary absorption equipment, and controlling the sweetening process.	5	GP
THERMOD	YNAMICS			
A2502	Gas Processing Thermodynamics	In Gas Processing Thermodynamics, you will learn about thermodynamics, heat transfer, the gas laws, and compression ratio.	5	GP
	•			

General Maintenance

Course #	Course Title	Description	Hrs	Lib
BEARINGS,	SEALS AND FASTENERS		•	
PS-MNT- BEA-101	Bearings	In Bearings, you will learn about industrial applications, bearing classifications and specifications, common bearing configurations; installing, removing, and	2.5	EIAM
		maintaining bearings, and problem troubleshooting.		
PS-MNT- FAS-101	Fasteners	In Fasteners, you will learn about different types of fasteners, including wedge anchors, buckles, cable ties, clamps, clips, pins, retaining rings, rivets, screws, bolts, nuts, and washers; their classifications, specifications, and standards; inspection, maintenance, troubleshooting, handling, and storage.	4	EIAM
PS-MNT- SDG-101	Gaskets, Seals and Packing	In Gaskets, Seals and Packing, you will learn about non-metallic, semi-metallic, and metallic gaskets; flange types and standards, tensile strength surface finish, and load sealability; seals and packing types and materials; and gasket installation, inspection, storage, handling, and troubleshooting.	2.5	EIAM
CLEANING A	ACTIVITIES			
A1207	Cleaning Activities	This program identifies the tools and procedures for cleaning pipes, burners, and other equipment. Major topics include cleaning gauge/sight glasses, strainer and burner cleaning, and changing filter elements.	1	CC
CORROSION	I CONTROL			
PS-MNT- CPS-101	Cathodic Protection Systems	In Cathodic Protection Systems, you will learn about using cathodic protection to control metal surface corrosion, including: galvanic protection and anodes, impressed current and rectifier systems; cathodic protection surveys, inspection, testing, and record-keeping; and cathodic system safety, maintenance, and troubleshooting.	3	EIAM
A1122	Corrosion Control	This program will teach you the basics of the corrosion process, the methods used to monitor the rate of corrosion and the control techniques used to protect equipment. By successfully controlling corrosion, the destructive effects can be minimized, and facility operations can be more profitable.	4	CC
PS-MNT- COR-101	Corrosion in Metal	In Introduction to Corrosion, you will learn about the corrosion process, including metal corrosion, corrosion damage, and corrosion cells; and corrosion control, including cathodic protection, protective coatings, corrosion monitoring and measurement, and corrosion monitoring techniques.	3	EIAM
A1580	Oil Field Corrosion	Millions of dollars are lost each year to corrosion in the oilfield. Millions more are spent attempting to control it. This program will teach you the basics of the corrosion process, the methods used to monitor the rate of corrosion and the control techniques used to protect equipment. By successfully controlling corrosion, the destructive effects can be minimized, and the operation of the lease can be more profitable.	4	СС
COUPLINGS	AND GEARS		ļ	
	Drive Couplings	In Couplings, you will learn about drive couplings, including classification, rigid and flexible couplings; online and offline drive coupling maintenance, belt tensioning, coupling removal and installation, and troubleshooting.	3.5	EIAM
PS-MNT- GEA-101	Gears	In Gears, you will learn about gear purpose, classifications, and applications; routine maintenance; gear installation and removal; gearbox maintenance, overhaul, and assembly; and gear troubleshooting.	4	EIAM
FILTERS				
PS-MNT- DCF-101	Dust and Coalescer Filters	In Dust and Coalescer Filters, you will learn about the application and workings of coalescing filters, the purpose of dust filters, and how to safely remove and install filter elements.	1	EIAM
PS-MNT- FTS-101	Filters and Strainers	In Filters and Strainers, you will learn about filtration, filter media, and operation; mechanical, absorbent, and adsorbent filters; Y-basket and temporary (geometric) strainers; filter and strainer cleaning and maintenance.	2	EIAM
GENERAL N	IAINTENANCE CONCEPTS		•	
PS-MNT- BLD-101	Blinding and De-blinding	In Blinding and Deblinding, you will learn about slip blinds, spectacle blinds, and blind flanges, blind and flange sizes, and blind installation and removal.	1	EIAM



Category: General Maintenance Skills and Knowledge

Course #	Course Title	Description	Hrs	Lib
PS-MNT- CMB-101	Condition Monitoring - Balancing	In Condition Monitoring - Balancing, you will learn balance quality grades and standards, calculating imbalance, vibration; in-place and single plane balancing, the	2.5	EIAM
		four-step balancing method and balancing in one run; field balancing, and balancing in two planes.		
PS-MNT-	Condition Monitoring -	In Condition Monitoring - General, you will learn about life, preventive, reactive,	3	EIAM
CMG-101	General	and predictive maintenance; potential fault analysis (PFA); vibration analysis, including imbalance, misalignment, and looseness analysis; and maintenance and		
		maintainability data.		
PS-MNT-	Fault Diagnosis,	In Fault Diagnosis, Troubleshooting and Machine Inspections, you will learn about	1.5	EIAM
FDT-101	Troubleshooting and	common techniques of diagnosing and troubleshooting machine failures including		
	Machine Inspections	Fault Tree Analysis (FTA) and Failure Mode and Effects Analysis (FEMA), machine performance monitoring, troubleshooting techniques using operation records,		
		vibration analysis, and lubricating oil analysis and the non-destructive testing (NDT)		
		methods of visual inspection, liquid penetrant, magnetic particle, ultrasonic,		
		radiography and eddy current.		
PS-MNT-	Fundamentals of Condition	In Fundamentals of Condition and Predictive Monitoring, you will learn about the	1	EIAM
CPM-101	and Predictive Monitoring	many different ways of monitoring the mechanical condition of equipment including vibration analysis, oil and wear debris analysis, ultrasonics, and infrared		
		thermography.		
PS-MNT-	Insulation and Thermal	In Insulation and Thermal Protection, you will learn about the purpose, types and	0.5	EIAM
ITP-101	Protection	applications of insulation and thermal protection.		
PS-MNT- MFD-101	Maintenance Fundamentals	In Maintenance Fundamentals, you will learn about the principles and types of maintenance, including proactive, preventative, corrective, breakdown, and	1	EIAM
INILD-101		turnaround maintenance; and maintenance workflow planning and strategies.		
PS-MNT-	Manuals and Drawings	In Manuals and Drawings, you will learn about maintenance drawings, orthographic,	2	EIAM
MND-101		process flow, piping and instrumentation, and schematic drawings; reading		
		drawings and blueprints; standards organizations; and operations and maintenance		
PS-MNT-	Planned, Corrective, and	manuals. In Planned, Corrective, and Breakdown Maintenance, you will learn planned,	1.5	EIAM
PCB-101	Breakdown Maintenance	corrective, and breakdown maintenance, including planning, implementing, and	1.5	ED (IV)
		executing maintenance schedules.		
PS-MNT-	Preventative Maintenance	In Preventative Maintenance Plans, you will learn about the basic steps involved	0.5	EIAM
PMP-101	Plans	with the development of a preventive maintenance plan as well as the benefits of such a plan including: benefits, purpose, the Development process and principles of		
		the program.		
LEAK DETEC	TION	, ,		,
A1198	Leak Detection and Repair	In this program, you will learn about controlling hazardous emissions through leak detection and repair.	1	CC
PS-MNT-	Leak Detection in	In this program, you will learn about different methods for detecting and repairing	1	EIAM
LDR-101	Refrigeration Lines	leaks in refrigerant lines		
LUBRICATIO	_	To any one was not an existing all another as would be lightly and a Madel worth as well be	T 1	CC
A1210	Lubrication Concepts	To ensure proper operation, all machines must be lubricated. Metal parts must be separated from one another when in operation, or rapid wear and deterioration will	1	CC
		result. This separation can be provided with oil lubricant. In this program, you will		
		learn about the different lubricants and their qualities so that you can choose the		
		proper lubricant for the equipment you operate.		
PS-MNT- LCA-101	Lubrication Systems, Classifications and	To ensure proper operation, all machines must be lubricated. In Lubrication Systems, Classifications and Applications, you will learn about frictional force, types	5	EIAM
LCA-101	Applications	of lubrication, lubricant properties, viscosity index and oxidation; lubricant		
	, ipplications	classifications, and synthetic and specialized lubricants; types of lubrication		
		systems; lubrication charts and inspection tasks; lubricant application and storage.	ļ	
MACHINE A				
PS-MNT-	Machine Alignment	In Machine Alignment, you will learn about the purpose of alignment, parallel and	2	EIAM
MAL-101		angular misalignment, alignment method selection; and performing precision, non- precision, and laser alignment.		
PIPES. HOSE	S AND FITTINGS	p. ess.e., and laser diffirments	1	
A1205	Flange Piping	This program explains the use of flange piping and the procedures for connecting	2	CC
		flanges. Major topics include types of fittings and flanges, flange gaskets, and blinding lines.		

Category: General Maintenance Skills and Knowledge

Course #	Course Title	Description	Hrs	Lib
PS-MNT- MHS-101	Mechanical Hoses	In Mechanical Hoses, you will learn about utility hose elements and selection, handling, cleaning, and storing hoses, specialty hoses, hose inspection and RMA testing standards; grounding hoses, and hose troubleshooting.	3	EIAM
A1202	Pipe Fitting Basics	This program covers the various pipes and fittings that make up a piping system and explains how to read piping diagrams. You will learn how pipe connections are made and how to select the proper equipment.	1	CC
PS-MNT- PSU-101	Pipe Supports	In Pipe Supports, you will learn about rigid, dynamic, and spring type pipe supports and their applications; pipe support design and inspection points; inspection and testing, extended maintenance, and troubleshooting.	3	EIAM
PS-MNT- PFI-101	Pipes and Fittings	In Pipes and Fittings, you will learn about pipe material, tubing, fittings, piping and instrumentation symbols, proper selection, and piping inspection and maintenance.	1	EIAM
PS-MNT- PTF-101	Pneumatic Tubing and Fittings	In Pneumatic Tubing and Fittings, you will learn about pneumatic tubing applications, tubing types, how to select the proper tubing, types of pneumatic fittings, and tubing installation guidelines.	1	EIAM
A1204	Small Threaded Pipe	This program covers applications for small threaded pipe and how to cut and thread piping joints. You will learn how to replace temperature and pressure indicators and how to operate pipe threading equipment.	2	CC
A1203	Tubing	This program explains the various uses for tubing and how to make up a small tubing run. Major subjects include types of tubing and fittings, tubing applications, tube bending, and how to assemble and tighten tubing.	2	CC
STRUCTURA	AL SAFETY			
PS-MNT- STS-101	Structural Safety	In Structural Safety, you will learn about OSHA requirements for ladders and stairways, handrail requirements; corrosion prevention and treatment; rebar corrosion and concrete damage, and structural repairs and inspection techniques.	3	EIAM

Hand Tools and Equipment

Course	Course Title	Description	Hrs	Lib
HAND TOO	S AND EQUIPMENT		•	•
PS-EIA- TTF-101	Electrician's Tools and Test Equipment	In Electrician's Tools and Test Equipment, you will learn about types of electrician's tools; electrical test equipment, including analog and digital multimeters, ammeters, circuit tracers, insulation testers, phase and motor rotation meters, power analyzers, wire sorters, and other test equipment; instrumentation and calibration.	4	EIAM
PS-MNT- HTM-101	Hand and Power Tools for Technicians	In Hand and Power Technicians, you will learn about hand tools, cutting tools and power tools; and how to select, use and maintain them safely and efficiently.	3.5	EIAM
PS-MNT- MEA-101	Measuring Tools	In Measuring Equipment, you will learn about general and precision measuring tools; and how to select, use and maintain them safely and efficiently.	1.5	EIAM
A1201	Working with Hand Tools	This program covers the basic hand tools that are normally found in an operator's toolbox. You will learn to identify each tool and how to use it properly.	2	CC
A1208	Working with Power Tools	Maintenance activities usually involve the use of some tools. Each of these tools is designed to perform a specific job. You must be able to select and operate the correct power tool for a particular job. In this program, you will learn the purpose, function and proper orientation of power tools. You will learn specific requirements of each type of power tool and how to use them safely.	2	CC
PS-MNT- WTE-101	Workshop Tools and Equipment	In Workshop Tools and Equipment, you will learn about the different parts and safe operation of hydraulic bench presses, drill presses, pedestal and angle grinders, band saws, sandblasters, and lathes.	2	EIAM



Hydrocarbon Storage and Loading

RAILROAD T PS-MSO-	Course Title	Description	Hrs	Lib
PS-MSO-	TRANSPORTATION			
	Rail Car Inspection	In Rail Car Inspection, you will learn about routine visual inspection at ground level,	1	MSO
RCI-201		routine inspection at dome, including vapor and liquid connections, PRV,		
		Thermowell, gauge rod, and inspection after loading/offloading.		
PS-MSO-	Rail Car Loading and	In Rail Car Loading and Offloading, you will learn about rail car access, connections,	1	MSO
RLO-101	Offloading	liquid and vapor valves; emergency shutoff and excess flow valves; C3/C4 loading		
		and NGLs offloading rail cars; measuring rail car content, using magnetic gauges		
		and slip tube rods.		
PS-MSO-	Rail Car Sampling and	In Rail Car Sampling and Composition Testing, you will learn about rail car sampling	0.75	MSO
RCS-201	Composition Testing	equipment and analysis; testing composition of offloading NGLs and gas		
		chromatography analysis.		
SAFE TANK	CLEANING			
A1133		Safe Tank Cleaning is a series of four learning programs designed to teach anyone	1	СС
A1133	Safe Tank Cleaning:		1	CC
	Cleaning the Tank	involved in the planning or supervision of a tank cleaning job the safety procedures		
		for gas freeing and cleaning stationary storage tanks. Cleaning the Tank covers the		
		physical removal of sludge and other residue from the tank interior. You will learn		
		about the proper tank cleaning supplies, personal protective equipment, and tests		
		required prior to tank entry. You will also learn general safety precautions to be		
		taken throughout the tank cleaning job.		
A1132	Safe Tank Cleaning: Gas-	Safe Tank Cleaning is a series of four learning programs designed to teach anyone	2	CC
	Freeing	involved in the planning or supervision of a tank cleaning job the safety procedures		
		for gas freeing and cleaning stationary storage tanks. In Gas Freeing, you will learn		
		specific information on gas freeing three different tank designs, with the		
		assumption that each tank contains a low-sulfur crude oil. The program		
		emphasizes the importance of accurately performing tests for flammable vapors,		
		toxic substances, and oxygen deficiency.		
A1134	Safe Tank Cleaning:	Safe Tank Cleaning is a series of four learning programs designed to teach anyone	2	CC
	Hazardous Materials	involved in the planning or supervision of a tank cleaning job the safety procedures		
		for gas freeing and cleaning stationary storage tanks. In Hazardous Materials, you		
		will learn how a specific tank design, combined with the specific material that the		
		tank contains, determines what gas freeing and tank cleaning procedures will be		
		necessary. You will also be introduced to a chart that cross-references tank designs		
		with specific materials a tank may contain. You will learn how to use the chart and		
		its accompanying data sheets to obtain information on a variety of tank cleaning		
		situations.		
A1131	Safe Tank Cleaning:	Safe Tank Cleaning is a series of four learning programs designed to teach anyone	2	СС
	Preparing for Cleaning	involved in the planning or supervision of a tank cleaning job the safety procedures	-	
	Treparing for eleaning	for gas-freeing and cleaning stationary storage tanks. Preparing for Cleaning		
		explains why tank cleaning is necessary and outlines the steps that must be carried		
		out before any tank cleaning work begins. You will also learn about the hazards		
		out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to		
		out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to handle those hazards. The program also covers basic test equipment and discusses		
		out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to		
STORAGE TA		out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to handle those hazards. The program also covers basic test equipment and discusses the use and importance of permits as they apply to tank cleaning.		
PS-MSO-	Atmospheric and Pressure	out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to handle those hazards. The program also covers basic test equipment and discusses the use and importance of permits as they apply to tank cleaning. In Atmospheric and Pressure Storage Tanks, you will learn about storage tank	3	MSO
		out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to handle those hazards. The program also covers basic test equipment and discusses the use and importance of permits as they apply to tank cleaning. In Atmospheric and Pressure Storage Tanks, you will learn about storage tank construction, pressurized and atmospheric storage tanks, and tank classification;	3	MSO
PS-MSO-	Atmospheric and Pressure	out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to handle those hazards. The program also covers basic test equipment and discusses the use and importance of permits as they apply to tank cleaning. In Atmospheric and Pressure Storage Tanks, you will learn about storage tank construction, pressurized and atmospheric storage tanks, and tank classification; effects of water and storage tank water detection and removal; and storage tank	3	MSO
PS-MSO-	Atmospheric and Pressure	out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to handle those hazards. The program also covers basic test equipment and discusses the use and importance of permits as they apply to tank cleaning. In Atmospheric and Pressure Storage Tanks, you will learn about storage tank construction, pressurized and atmospheric storage tanks, and tank classification; effects of water and storage tank water detection and removal; and storage tank roof inspection, including safety precautions, visual and non-destructive	3	MSO
PS-MSO-	Atmospheric and Pressure Storage Tanks	out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to handle those hazards. The program also covers basic test equipment and discusses the use and importance of permits as they apply to tank cleaning. In Atmospheric and Pressure Storage Tanks, you will learn about storage tank construction, pressurized and atmospheric storage tanks, and tank classification; effects of water and storage tank water detection and removal; and storage tank roof inspection, including safety precautions, visual and non-destructive inspection, and external tank roof inspection.	3	MSO
PS-MSO-	Atmospheric and Pressure	out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to handle those hazards. The program also covers basic test equipment and discusses the use and importance of permits as they apply to tank cleaning. In Atmospheric and Pressure Storage Tanks, you will learn about storage tank construction, pressurized and atmospheric storage tanks, and tank classification; effects of water and storage tank water detection and removal; and storage tank roof inspection, including safety precautions, visual and non-destructive	3	
PS-MSO- APS-101	Atmospheric and Pressure Storage Tanks	out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to handle those hazards. The program also covers basic test equipment and discusses the use and importance of permits as they apply to tank cleaning. In Atmospheric and Pressure Storage Tanks, you will learn about storage tank construction, pressurized and atmospheric storage tanks, and tank classification; effects of water and storage tank water detection and removal; and storage tank roof inspection, including safety precautions, visual and non-destructive inspection, and external tank roof inspection.		
PS-MSO- APS-101 PS-MNT-	Atmospheric and Pressure Storage Tanks	out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to handle those hazards. The program also covers basic test equipment and discusses the use and importance of permits as they apply to tank cleaning. In Atmospheric and Pressure Storage Tanks, you will learn about storage tank construction, pressurized and atmospheric storage tanks, and tank classification; effects of water and storage tank water detection and removal; and storage tank roof inspection, including safety precautions, visual and non-destructive inspection, and external tank roof inspection. In Maintaining Storage Tanks, you will learn about corrosion, internal coatings, tank inspection and repair, emissions, removing a tank from service, tank cleaning,		
PS-MSO- APS-101 PS-MNT- STT-102	Atmospheric and Pressure Storage Tanks Maintaining Storage Tanks	out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to handle those hazards. The program also covers basic test equipment and discusses the use and importance of permits as they apply to tank cleaning. In Atmospheric and Pressure Storage Tanks, you will learn about storage tank construction, pressurized and atmospheric storage tanks, and tank classification; effects of water and storage tank water detection and removal; and storage tank roof inspection, including safety precautions, visual and non-destructive inspection, and external tank roof inspection. In Maintaining Storage Tanks, you will learn about corrosion, internal coatings, tank inspection and repair, emissions, removing a tank from service, tank cleaning, silo maintenance and inspection, and safety.	1.5	EIAM
PS-MSO- APS-101 PS-MNT- STT-102 PS-MNT-	Atmospheric and Pressure Storage Tanks	out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to handle those hazards. The program also covers basic test equipment and discusses the use and importance of permits as they apply to tank cleaning. In Atmospheric and Pressure Storage Tanks, you will learn about storage tank construction, pressurized and atmospheric storage tanks, and tank classification; effects of water and storage tank water detection and removal; and storage tank roof inspection, including safety precautions, visual and non-destructive inspection, and external tank roof inspection. In Maintaining Storage Tanks, you will learn about corrosion, internal coatings, tank inspection and repair, emissions, removing a tank from service, tank cleaning, silo maintenance and inspection, and safety. In Purging Storage Tanks, you will learn about the purpose of purging, isolating the		MSO EIAM
PS-MSO- APS-101 PS-MNT- STT-102	Atmospheric and Pressure Storage Tanks Maintaining Storage Tanks	out before any tank cleaning work begins. You will also learn about the hazards that must be minimized or eliminated at the tank cleaning site, and the ways to handle those hazards. The program also covers basic test equipment and discusses the use and importance of permits as they apply to tank cleaning. In Atmospheric and Pressure Storage Tanks, you will learn about storage tank construction, pressurized and atmospheric storage tanks, and tank classification; effects of water and storage tank water detection and removal; and storage tank roof inspection, including safety precautions, visual and non-destructive inspection, and external tank roof inspection. In Maintaining Storage Tanks, you will learn about corrosion, internal coatings, tank inspection and repair, emissions, removing a tank from service, tank cleaning, silo maintenance and inspection, and safety.	1.5	EIAM



Category: Hydrocarbon Storage and Loading

Course #	drocarbon Storage and Loading Course Title	Description	Hrs	Lib
PS-MNT-		In Storage Tanks, you will learn about tank designs, including cone roof, floating	1.5	EIAM
STT-101	Storage Tanks	roof, dome roof, and pressure vessels; fire protection and hazards, flammable vapor testing, auxiliary equipment, and environmental hazards.	1.5	EIAIVI
PS-MSO- TSO-101	Tank Isolation	In Tank Isolation, you will learn about performing tank isolation including its purpose, planning, locking out tank electrical equipment, blinding and blanking using blanks, spectacle blinds, paddle blinds, and double block and bleed systems, blinding safety procedures and transient vapors.	1	MSO
PS-MNT- STT-103	Tank Roof Inspection	In Tank Roof Inspection, you will learn about the purpose, procedures, regulatory requirements and methods involved with tank roof inspections including visual inspection, non-destructive techniques, and safety precautions.	1	EIAM
PS-MSO- TVS-101	Tank Venting Systems	In Tank Venting Systems, you will learn about the purpose of tank venting, sizing the venting system, pressure/vacuum relief vents, flame arrestors, discharge piping, and compressor and venturi vapor recovery systems.	1	MSO
PS-MSO- UST-101	Underground Storage Tank Inspection and Monitoring	In Underground Storage Tank Inspection and Monitoring, you will the purpose of underground storage tank inspections, the various types of release detection using automatic and manual tank gauging, interstitial monitoring, ground water monitoring, vapor monitoring, tank tightness and inventory control requirements for daily, monthly and annual inspections.	1	MSO
A1565	Vapor Recovery Systems	For years, the vapors escaping from oil storage tanks through hatches, vents and flare systems were given little attention. Specialists have since learned that if the vapors existed in sufficient quantities, the recovery of the vapors was economically feasible. The recovered vapors represented a valuable source of energy that previously had been "lost." This program explains the operation and routine maintenance of Vapor Recovery Systems. It describes the principles behind vapor recovery, the component parts of vapor recovery units, a method of determining quantities of vapors recovered, and how to keep the equipment operating efficiently.	3	CC
PS-MSO- WRT-101	Water Removal from a Storage Tank Bottom	In this Water Removal from a Storage Tank Bottom, you will learn about the detection and removal of water from a petroleum storage tank including the effects of water in petroleum storage tanks, storage tank floor design, and manual and automatic draining systems.	1	MSO
TRUCK TRA	NSPORTATION			
PS-MSO-	ISO Truck Tank	In ISO Truck Tank Construction and Inspection, you will learn about the	1	MSO
ITI-101	Construction and Inspection	characteristics of cryogenic ethylene and the construction and inspection of an ISO truck tank including regulatory truck tank markings, rated holding time, marked rated holding time, one way travel time, the location of valves, gauges and fittings, and leak detection.		
PS-MSO- NTO-101	Natural Gas Liquids (NGL) Truck Offloading	In Natural Gas Liquids (NGL) Truck Offloading, you will learn about NGLs, the truck loading system; flow element and vapor eliminator, the automated offloading system, Scully ground prover and high-level shutoff; fire protection, meter proving; truck offloading requirements, and truck offloading.	0.5	MSO
PS-MSO- PPT-101	Pentane (C5)+ Truck Loading	In Pentane (C5)+ Truck Loading, you will learn about pentane, C5 truck loading system; condensate pump and flow control valves and pressure control, the loading control system, ground prover and high level shutoff; custody transfer of condensate, and meter proving.	0.75	MSO
PS-MSO- PBT-101	Propane and Butane Truck Loading	In Propane and Butane Truck Loading, you will learn about propane and butane, C3/C4 truck loading system; pressure control valve, flow element and vapor eliminator, pressure transmitter functions, the loading control system, and high level shutoff; automatic odorizing system, meter proving, fire protection, and truck loading requirements and sequence.	0.75	MSO
PS-MSO- TSM-101	Testing Composition of Offloading Truck NGLs	In Testing Composition of Offloading Truck NGLs, you will learn about the three most common methods for sampling the composition of product at truck loading racks - Coriolis Meters for Density, Online Gas Chromatograph, and Grab Sampling.	0.75	MSO
UNDERGRO	OUND STORAGE			
PS-MSO- SCS-101	Salt Caverns and Underground Storage	In Salt Caverns and Underground Storage, you will learn about salt cavern formation, operation, capacity, overfilling and flow rate restrictions, brine systems, and underground tube storage.	1	MSO
1			1	

Instrumentation and Control

Course #	Course Title	Description	Hrs	Lib
ANALYZERS	AND INFERENTIALS			
PS-EIA-	Analyzer Sampling and	In Analyzer and Conditioning Systems, technicians will learn about process	1	EIAM
ASC-101	Conditioning System	sampling, sampling probes, sample transfer and return lines, and sampling time;		
	- '	factors affecting the sample conditioning system; and how to troubleshoot		
		sampling and conditioning systems.		
PS-EIA-	Analyzer Shelters	An analyzer shelter is designed to provide a safe and environmentally-controlled	1	EIAM
ANS-101		atmosphere for plant analyzers. In Analyzer Shelters, you will learn about		
		enclosure and building (walk-in) types of shelters; analyzer shelter components		
		and safety systems; and shelter troubleshooting.		
PS-EIA-	Chlorine Analyzers	In Chlorine Analyzers, you will learn about colorimetric and amperometric	1.5	EIAN
CHA-101		chlorine analyzers, calibration, routine maintenance and troubleshooting.		
PS-EIA-	Dissolved Oxygen Analyzers	In Dissolved Oxygen Analyzers, you will learn about electrochemical and optical	1	EIAN
DOA-101		(luminescent) techniques for measuring the amount of dissolved oxygen in a		
		process stream, and analyzer calibration and troubleshooting.		
PS-EIA-	Gas Chromatography	In Gas Chromatography, you will learn about gas chromatography separation	3	EIAM
GCH-101	,	techniques, chromatograms, components, calculating component concentration,		
		calibration, and troubleshooting hardware and programming failures.		
PS-EIA-	Gas Density Analyzers	In Density Analyzers, you will learn about gas density analyzers, the Wobbe Index,	1.5	EIAN
GDA-101	, , , , ,	and density measurement techniques, including vibrating cylinder and		
		combustion calorimeter configurations; specific gravity analyzers; and calibrating		
		and troubleshooting gas density analyzers.		
A2065	Instrumentation: Analyzers	Instrumentation is a series of learning programs designed to provide operators	2	СС
000	and Inferentials	with a general sense of how instrumentation plays its role in the efficient	_	
		operation of a refinery. Process analysis is continuously performed to determine		
		the quality of raw materials, intermediates, and finished products. In Analyzers		
		and Inferentials, you will learn about working with analyzers and analytical		
		instruments, key tools in instrumentation process control.		
PS-MSO-	Introduction to Gas	In Introduction to Gas Chromatography, you will be introduced to the process and	0.5	MSO
GCH-102	Chromatography	analysis results for Gas Chromatography.	0.5	10150
PS-EIA-	Melting Flow Rate	In Melting Flow Rate Analyzers, you will learn about weighted piston and pump	1.5	EIAN
MFA-101	Analyzers	type melting flow rate analyzers, calibration, and troubleshooting.	1.5	
PS-EIA-	Moisture Analyzers	In Moisture Analyzers, you will learn about dew point, moisture content, relative	1	EIAN
MAN-101	Worsture Ariaryzers	humidity, vapor pressure, partial pressure, types of sensors and their features;	_	LIAIV
WAN 101		and how to calibrate and troubleshoot them.		
PS-EIA-	Nuclear Radiation Level	In Nuclear Radiation Level Measurement, you will learn nuclear radiation level	1.5	EIAN
NRL-101	Measurement	detection, radioactive materials, sources, and types of detector devices;	1.5	LIAIV
IVINE-101	Wiedsdreinent	configuration, calibration, safety, and troubleshooting.		
PS-MSO-	Operating Hydrogen Sulfide	In Operating Hydrogen Sulfide (H2S) Samplers, you will learn about detector tube	1	MSO
HST-201		operation, detector tubes, piston and bellows-type detectors, and common	1	IVISO
П31-201	(H2S) Tube Samplers			
DC EIA	Oursen Analyses	operating instructions. In Oxygen Analyzer, you will learn about paramagnetic, thermoparamagnetic, and	1.5	FLAN
PS-EIA-	Oxygen Analyzer		1.5	EIAN
OXA-101		conductivity sensors, procedures for calibrating, and analyzer troubleshooting.	4.5	FIAN
PS-EIA-	pH Analyzers	In pH Analyzers, you will learn about pH measurement indicators, probes,	1.5	EIAN
PAN-101		transmitters, and effects of process temperature; one- and two-point calibration,		
		and pH analyzer troubleshooting.	_	
PS-EIA-	Photometric Analyzers	In Photometric Analyzers, you will learn about energy absorption, photometric	2	EIAN
PHA-101		analyzer components, including sources, sample cells, wavelength selectors,		
		detectors, electronics and output; different photometer configurations, and how		
		to calibrate and troubleshoot photometric analyzers.		
PS-MSO-	Turbidity Measurement	In Turbidity Measurement, you will learn why turbidity measurement is	1	MSC
TUM-101		important; common turbidity measuring devices including Single Beam Style,		
		Ratio Style, and Modulated Four-Beam Style; and turbidity units and standards.		
PS-EIA-	Understanding pH	In Understanding pH Measurement, you will learn about pH, how it is measured	1	EIAN
PHM-101	Measurement	with both Colormetric and pH meters, and how to calibrate a pH meter.	1	



Category: Math and Science Fundamentals

Course #	ch and Science Fundamentals Course Title	Description	Hrs	Lib
CONTROL SY	STEMS			
PS-MSO-	Automated Control	In Automated Control Applications, you will learn about on/off control systems;	3	MSO
ACA-101	Applications	process dynamics, electronic proportional, integral, and derivative (PID) control;		
		analog electronic controllers including operational amplifiers (op-amps) and		
		automatic process control.		
PS-EIA-CTL-	Control Loops	In Control Loops, you will learn about control loops and controller action,	3	EIAM
101	·	including control types, controllers, variables, control modes; types of control		
		schemes, including cascade, ratio, split range, feedforward, multivariable and		
		adaptive control; and control loop tuning techniques.		
PS-EIA-	Control Systems - SCADA,	In Control Systems - SCADA, DCS and ESD, you will learn about control systems	2	EIAM
CSN-101	DCS and ESD	and basic feedback control; distributed control systems (DCS), including field I/O,		
		process controllers, communications, redundancy, and operations; supervisory		
		control and data acquisition (SCADA) systems, including field I/O, master and		
		remote stations, along with their associated software components; and		
		Emergency Shutdown Systems (ESD).		
A2066	Instrumentation:	In this program, you will learn about regulatory control, including valves, signal	4	CC
	Regulatory Control	transmission, and basic and advanced control systems.		
A2060	Instrumentation:	Instrumentation is a series of learning programs designed to provide operators	3	CC
	Fundamentals of Control	with a general sense of how instrumentation plays its role in the efficient		
		operation of a refinery. In Fundamentals of Control, you will learn about the		
		basics of instrumentation, including the control loop, process variable indicators,		
		process instrument equipment, and piping and instrumentation diagrams.		
PS-MSO-	Introduction to	In Introduction to Computerized Control Systems, you will learn about	1	MSO
CCO-101	Computerized Control	computerized control systems used in the process facilities including human		
	Systems	machine interfaces (HMI); the basic concepts of a distributed control systems		
		(DCS) and its associated equipment; the functions of programmable logic		
		controllers (PLC); and supervisory control and data acquisition (SCADA) systems.		
PS-EIA-	Introduction to Supervisory	In Introduction to SCADA Systems, you will learn about Supervisory Control and	.75	EIAM
SCA-101	Control and Date	Data Acquisition (SCADA) and Distributed Control Systems (DCS). SCADA function		
	Acquisition (SCADA)	and basic elements are described, including HMIs, PLCs, and RTUs, along with		
		SCADA communications.		
PS-EIA-	Network and	In Network and Communications, you will learn about communication networks,	1.5	EIAM
CSN-102	Communication Systems	transmission modes, encoding, communication speeds, data error detection,		
		common industrial communication standards and protocols, including HART,		
		FOUNDATION Fieldbus, Mobus, and Profibus / PROFINET networks.		
PSEIA-PNE-	Pneumatic Control Systems	In Pneumatic Control Systems, you will learn about the fundamentals and basic	1	EIAM
101		components of a pneumatic control system including the flapper and nozzle		
		mechanisms, booster relays, and pneumatic transmitters and controllers.	_	
PS-MSO-	Process Control Strategies	In Process Control Strategies, you will learn about process variables and	1	MSO
PCS-101		instrumentation control systems including open loop systems, feedback control		
		systems, feedforward control systems, and Proportional-integral-derivative		
DC EIA CIC	Cofety in Instrumentation	controller (PID).	2	ELA D.A
PS-EIA-SIC-	Safety in Instrumentation	In Safety in Instrumentation and Control Systems, you will learn about emergency shutdown systems, standards, safety system technologies, SIS architecture;	3	EIAM
101	and Control Systems	system integrity levels (SIL), equipment failure modes and analysis, SIS factors,		
		and procedures for overriding ESD and SIL systems.		
DC EIA	SCADA Operation	In SCADA Operation, you will learn about the SCADA system, function, and	1	EIANA
PS-EIA- SCA-101	SCADA Operation	components, general operation and changing a setpoint. You will also learn about	1	EIAM
3CA-101		control room cold and warm start-ups, including cold start-up pre-checks and		
		typical start-up screens. Control room facility shutdown is covered, with switch		
		and display guidelines, and an extraction plant shutdown example. Finally, you		
		will learn about control room emergency shutdown recovery.		
PS-EIA-SCS-	Simple Control System	In Simple Control Systems, you will learn about PLC fundamentals, including	2	EIAM
101	(PLC)	architecture, basic PLC control and programming, external functions and		LIAIVI
101	(. 20)	hardware; PLC maintenance, and general troubleshooting.		
CUCTODY	ANCEED	maranare, i ze maintenance, ana general troubleshootilig.		
CUSTODY TR		In Custody Motors, you will look about austody transfer systems. It was a first transfer austonia.	2.5	EIAA4
PS-EIA-	Custody Meters	In Custody Meters, you will learn about custody transfer systems, types of meters	2.5	EIAM
CSM-101		and metering components, meter accuracy and standards, flow meter		
		applications, meter proving; and calibrating and troubleshooting custody meters.	<u> </u>	

Category: Math and Science Fundamentals

Course #	th and Science Fundamentals Course Title	Description	Hrs	Lib
A1535	Lease Automatic Custody	Lease Automatic Custody Transfer is an introduction to the components and the	3	CC
7.12000	Transfer (LACT)	functions of LACT units. The fundamentals of oil volume measurement are		
		explained and then related to the operation of the individual LACT components.		
		Meter reading and sample removal and analysis are covered in detail. The		
		relationship of the producer and the gatherer is discussed. Throughout the		
		program, measurement accuracy is emphasized.		
	AND DIAGRAMS			
A2067	Instrumentation: Process	A company may have several production processes. Having uniform standards for	2	CC
	and Instrumentation	instrumentation systems used for measurement and control simplifies and helps explain the process. In this program, you will learn standard symbols used in		
i	Drawings	instrumentation systems how to apply them.		
FLECTRICAL	MEASUREMENT	moduli systems now to apply them.	1	
PS-EIA-	Conductivity Analyzers	In Conductivity Analyzers, you will learn about inductive and contactive	1.5	EIAM
CDA-101	, ,	conductivity measurement, effect of temperature on conductivity; and		
		conductivity analyzer operation, installation, calibration, and troubleshooting.		
PS-EIA-	Electrical Level	In Electrical Level Measurement, you will learn about resistance, conductance,	1	EIAM
ELM-101	Measurement	and capacitance level measurement; capacitance level probes, and calibrating		
		and troubleshooting electrical level measurements.		
FLOW MEAS				
PS-EIA-	Differential Pressure Flow	In Differential Pressure Flow Measurement, you will learn about fluid flow, flow	2.5	EIAM
DPR-101	Measurement	conditioners, flow measurement, Reynold's Number and flow equation factors;		
		orifice plate construction, types, designs, pressure taps, removing orifices; other		
		flow meters; differential pressure transmitters; and calibrating and		
PS-EIA-	Flow Gauging (Rotameter)	troubleshooting differential pressure flow meters. In Flow Gauging (Rotameter), you will learn about measuring flow rate with a	1	EIAM
FGR-101	Flow dauging (Notameter)	rotameter, glass, plastic, and metal types of rotameters, and fault conditions.	1	LIAIVI
A2064	Instrumentation:	Instrumentation is a series of learning programs designed to provide operators	3	CC
	Measuring Flow	with a general sense of how instrumentation plays its role in the efficient		
		operation of a refinery. In Measuring Flow, you will learn about flow rate and		
		measurements, including differential pressure and positive displacement flow		
		meters.		
PS-EIA-	Mass Flow Measurement	In Mass Flow Measurement you will learn about the features of coriolis and	1	EIAM
MFM-101		thermal mass meters, and how to calibrate and troubleshoot them.		
PS-EIA-	Volumetric Flow	In Volumetric Flow Measurement, you will learn about positive displacement and	1.5	EIAM
VMF-101	Measurement	velocity flow meters, calibration, and troubleshooting.		
	RUMENTATION	Last war as to the control of the control of a good attended to the control of	T 4	66
A1570c	Lease Instrumentation:	Instrumentation plays a vital role in the operation of a production lease. It helps control the production, separation, treatment and distribution of oil-well fluids	4	CC
	Control Equipment	with a minimum of hands-on labor. Lease equipment, like oil and gas separators		
		and heater treaters are often equipped with instruments that automatically		
		monitor and control temperatures, pressures, levels, and flows.		
A1570b	Lease Instrumentation:	Instrumentation plays a vital role in the operation of a production lease. It helps	2	CC
	Final Control Devices	control the production, separation, treatment and distribution of oil-well fluids		
		with a minimum of hands-on labor. Lease equipment, like oil and gas separators		
		and heater-treaters are often equipped with instruments that automatically		
		monitor and control temperatures, pressures, levels, and flows. Lease		
		Instrumentation is a series of three learning programs that cover how		
		instruments function to keep the equipment on the lease working safely and		
		efficiently. In Final Control Devices, you will learn about valves and plugs, and		
A1570a	Lease Instrumentation:	valve operators. Instrumentation plays a vital role in the operation of a production lease. It helps	3	CC
WT2\0q	Sensing and Measuring	control the production, separation, treatment and distribution of oil-well fluids	٥	CC
	Equipment	with a minimum of hands-on labor. Lease equipment, like oil and gas separators		
	-11	and heater treaters are often equipped with instruments that automatically		
		monitor and control temperatures, pressures, levels, and flows. Lease		
		Instrumentation is a series of three learning programs that cover how		
		instruments function to keep the equipment on the lease working safely and		
		efficiently. In Sensing and Measuring Equipment, you will learn about pressure		
		instruments, temperature and level instruments, and flow instruments.		

Category: Math and Science Fundamentals

Course #	Course Title	Description	Hrs	Lib
LEVEL MEAS	UREMENT			
PS-EIA-	Hydrostatic Head Level	In Hydrostatic Head Level Measurement, you will learn about open and closed	1	EIAM
HHL-101	Measurement	tank measurement, adjustments, zero suppression and zero elevation, dry and		
		wet leg closed tank measurement.		
PS-EIA-	Hydrostatic Head Level	In Hydrostatic Head Level Measurement - Device Calibration and Measurement,	1	EIAM
HHL-102	Measurement - Device	you will learn about calibrating techniques and troubleshooting errors and faults		
	Troubleshooting and	for instruments and devices dealing with hydrostatic head level measurement,		
	Calibration			
A2063	Instrumentation:	Instrumentation is a series of learning programs designed to provide operators	3	CC
	Measuring Liquid Level	with a general sense of how instrumentation plays its role in the efficient		
		operation of a refinery. Effective control of liquid level is important to good		
		process unit operation and safety. It is important that you understand how the		
		different types of level measures function and how they can produce incorrect		
		levels. In Measuring Liquid Level, you will learn about the different ways to		
		measure liquid level.		
PS-EIA-	Microwave and Laser Level	In Microwave and Laser Level Measurement, you will learn about guided wave	1.5	EIAM
MLL-101	Measurement	and non-contacting wave level measurement, laser level measurement,		
		calibration and troubleshooting.		
PS-EIA-PLS-	Point Level Switches	In Point Level Switches, you will learn about point and continuous level	1.5	EIAM
101		measurement; safety switch components, types of switches, including ball (float),		
		displacer, vibrating point, ultrasonic, capacitance probe, conductive, and		
DC 514	6: 1: 15! : 6	radiation or nuclear level switches; and how to calibrate and troubleshoot them.		F1444
PS-EIA-	Sight and Float Gauging	In Sight and Float Gauging, you will learn about types of gauge glasses, magnetic	2	EIAM
SFG-101		level indicators, float and tape gauges; calibrating float and tape gauges; cleaning		
DC EIA	Tank Causing System	gauge glasses, and troubleshooting sight and float gauges.	1 -	FIANA
PS-EIA-	Tank Gauging System	In Tank Gauging System, you will learn about the float and tape and displacer and	1.5	EIAM
TGS-101		servomotor methods of tank gauging; displacer installation, output signals,		
PS-EIA-	Ultrasonic Level	calibration, and troubleshooting. In Ultrasonic Level Measurement, you will learn about ultrasonic waves,	1	EIAM
ULM-101	Measurement	measurement, installation, non-invasive transducers, calibration, and	1	LIAIVI
OLIVI-101	Weastrement	troubleshooting.		
MEASIDEM	ENT FUNDAMENTALS	1.04.0.00110.0111.0.	I.	
IVIEASUREIVII		In Fundamentals Principles of Instrument Calibration, you will learn about a	0.5	EIAM
PS-EIA-ICA-	Fundamentals Principles of	general calibration procedure and terminology, calibration standards, and the	0.5	LIAIVI
101	Instrument Calibration	zero, span, linearity and hysteresis calibration errors.		
PS-MSO-	Introduction to	In Introduction to Measurement: Density, Moisture, pH, and Conductivity, you	1.5	MSO
MEA-104	Measurement: Density,	will learn about density measurement, including buoyant force, differential	1.5	IVISO
111271 201	Moisture, pH, and	pressure, frequency, and nuclear absorption; moisture measurement, including		
	Conductivity	microwave, infrared, and capacitance measurement; pH measurement; and		
	,	conductivity measurement, including measurement units and cell constant, and		
		conductivity probes.		
PS-MSO-	Introduction to	Level and flow measurements are used throughout industry to determine the	3	MSO
MEA-103	Measurement: Level and	quantity of various solids and liquids and flow rates. The information is used for		
	Flow	safety, economic and operational reasons, such as monitoring and controlling the		
		inventory into and out of a process. Level measurement applies to liquid levels in		
		vessels or tanks or dry substances such as wood chips, chemicals or products		
		used in the food or pharmaceutical industry.		
PS-MSO-	Introduction to	In Introduction to Measurement: Pressure and Temperature, you will learn about	3	MSO
MEA-102	Measurement:	heat transfer, temperature scales and sensors; different types of pressure,		
	Temperature and Pressure	pressure measurement primary standards (manometers and deadweight testers);		
		and mechanical and electrical pressure sensors and gauges.		
PS-EIA-	Measurement and	In Measurement and Calibration Basics, you will learn about measurement	2	EIAM
MCB-101	Calibration Basics	technology, including range, span, turndown ratio, accuracy, repeatability,		
		linearity, resolution, hysteresis, error, measured and actual values; measurement		
		devices, calibration terminology and equipment, and safety.		

Category: Math and Science Fundamentals

Course #	Course Title	Description	Hrs	Lib
PRESSURE I	MEASUREMENT			
A2062	Instrumentation: Measuring Pressure	Instrumentation is a series of learning programs designed to provide operators with a general sense of how instrumentation plays its role in the efficient operation of a refinery. In Measuring Pressure, you will learn about the basics of measuring pressure, including the tools used for sensing pressure and pressure gauges.	3	СС
PS-EIA- PRM-101	Pressure Measurement	In Pressure Measurement, you will learn about types of pressure, pressure and thermodynamics, primary elements, such as bourdon tubes, bellows, diaphragms, capsules, piezoelectric sensors, and strain gauges; pneumatic instruments, pressure regulators; and device installation, calibration, and troubleshooting.	2	EIAM
TANK GAUG	GING		ı	
A1196	Tank Gauging	Every oil and gas company must accurately and correctly report inventory. To do this, companies rely on tank gauging to measure all hydrocarbon inventory. Because the volume of inventory is high, the value can be in the billions of dollars. Any errors made in tank gauging mean that investors may not have the proper financial information with which to make decisions. In this program, you will learn about properly and safely gauging tank inventory.	4	СС
TEMPERAT	JRE MEASUREMENT			
A2061	Instrumentation: Measuring Temperature	Instrumentation is a series of learning programs designed to provide operators with a general sense of how instrumentation plays its role in the efficient operation of a refinery. In Measuring Temperature, you will learn about instruments designed to sense temperature, including electrical temperature sensors.	2	СС
PS-EIA- TPM-101	Temperature Measurement	In Temperature Measurement, you will learn about heat transfer, and temperature sensing devices, including thermometers, bimetallic strips, filled thermal systems, RTDs and thermistors, thermocouples and thermowells; calibration procedures, and troubleshooting.	2.5	EIAM

Math and Science Fundamentals

Course #	Course Title	Description	Hrs	Lib
BASICS OF	MATHEMATICS			
A1130	Basic Mathematics	In Basic Mathematics, you will learn about the principles and operations involving mathematics within a process facility, including addition, subtraction, multiplication, and division of fractions and decimals. You will also learn about using percentages, ratios, proportions, and triangles to solve problems involving process plant activities, such as mixing liquids, determining actual amounts in storage, and angle fitting.	5	CC
BASICS OF	HYDROCARBON CHEMISTRY			
A1181	Hydrocarbon Chemistry 101	In Hydrocarbon Chemistry 101, you will learn about basic hydrocarbon composition and properties; carbon and hydrocarbon bonding; hydrocarbon structures and types of formulas. You will also learn about alkanes/paraffins, saturation, alkenes/olefins, alkynes/acetylenes, structural (constitutional) isomers and stereoisomers; and saturated and unsaturated ring hydrocarbons. Finally, you will learn about hydrocarbon nomenclature: naming conventions, how isomers and ring hydrocarbons are named, IUPAC naming rules, and nomenclature for other organic compounds.	3	СС
A1180	Process Plant Chemistry	In this program, you will learn about the basic chemistry behind the refining process. You will learn basic chemical terminology, molecular formulas, structural formulas, some common chemical symbols, and the various hydrocarbon groups used within the petrochemical industry. This program is designed to provide a background in the chemical nature of the operator's job, work environment, and products of refining.	2	СС
HEAT EXCH	ANGERS			
A1022a	Nature of Heat: Heat Exchange Equipment	The economical operation of a modern plant or refinery depends upon the efficient use of heat energy. Nature of Heat is a series of learning programs including Heat and Temperature, Heat Transfer, and Fuels and Combustion. Efficient use of heat energy includes not only efficient combustion, but also the efficient transfer of heat energy from one place to another. In this program in the series, different types of heat exchangers, including fixed shell-and-tube, Utube and floating head are examined.	1	CC
PHYSICS OF	FLUID AND FLOW	*		
A1610a	Fundamentals of Fluids for Production Operations: Fluid Behavior	In this program, you will learn about the types of fluids and their chemical and physical nature, the nature of phase, how phase change is used, and how it can be controlled. The program goes on to cover the instruments and units for measuring fluids. This includes units for measuring pressure, temperature, density, and viscosity. You will also learn about the nature of absolute measurements and how to convert measurements from one unit to another.	4	CC
A1610b	Fundamentals of Fluids for Production Operations: Gases and Static Pressure	In this program, you will learn how to predict pressure, temperature, and volume changes that occur in gas compression and storage. You will also learn to recognize hazards in gas handling and the precautions used to avoid these hazards. This program also covers the nature, calculation, and uses of static pressure, including how to calculate pressure from liquid level and liquid level from bottom gauge pressure, the instruments that operate on the principle of static pressure, the nature and hazards of vacuum; and the uses of static pressure in handling and transporting fluids.	3	СС
A1044	Mechanics of Fluids: Fluids in Motion	Hydrocarbon processing involves many types of fluids. Mechanics of Fluids is a series of five learning programs covering the principles of fluid handling in refineries and other process industries. The courses in this series include: Introduction to Mechanics of Fluids, Units of Measurement, Behavior of Gases, Statics, and Fluids in Motion. In this final program, Fluids in Motion, you will learn the factors affecting flow rate and how these can be controlled, the basic principles and instruments of flow measurement, and the control of rate through valves and through pumping.	4	СС



Category: Math and Science Fundamentals

Course #	Course Title	Description	Hrs	Lib
A1041a	Mechanics of Fluids: Introduction to Process Fluids	Hydrocarbon processing involves many types of fluids. Mechanics of Fluids is a series of five learning programs covering the principles of fluid handling in refineries and other process industries. In Introduction to Process Fluids, you will learn about types of fluids and their chemical and physical nature, including gas compressibility and liquid incompressibility. You will learn about the nature of phase, how phase change is used, and how it can be controlled. You will also learn about the fluid distillation process, types of fluid systems and emulsions.	4	сс
A1043	Mechanics of Fluids: Static Pressure and Head	Hydrocarbon processing involves many types of fluids. Mechanics of Fluids is a series of five learning programs covering the principles of fluid handling in refineries and other process industries. The courses in this series include: Introduction to Mechanics of Fluids, Units of Measurement, Behavior of Gases, Statics, and Fluids in Motion. In Static Pressure and Head, the fourth program in the Mechanics of Fluids Series, you will learn about the nature, calculation, and uses of static pressure. Topics include how to calculate pressure from liquid level, and how to calculate liquid level from bottom gauge pressure, the instruments that operate on the principle of static pressure, the nature and hazards of vacuum, and the uses of static pressure in handling and transporting fluids.	5	СС
A1041b	Mechanics of Fluids: Units of Fluid Measurement	Hydrocarbon processing involves many types of fluids. Mechanics of Fluids is a series of five learning programs covering the principles of fluid handling in refineries and other process industries. The courses in this series include: Introduction to Mechanics of Fluids, Units of Measurement, Behavior of Gases, Statics, and Fluids in Motion. In Units of Fluid Measurement, you will learn about pressure measurements, temperature measurements, density and gravity measurements, and viscosity measurements. You'll also learn about the nature of absolute measurement and how to convert measurements from one unit to another.	4	СС
A1042	Mechanics of Fluids: Behavior of Gases	Hydrocarbon processing involves many types of fluids. Mechanics of Fluids is a series of five learning programs covering the principles of fluid handling in refineries and other process industries. The courses in this series include: Introduction to Mechanics of Fluids, Units of Measurement, Behavior of Gases, Statics, and Fluids in Motion. In Behavior of Gases, the third program in the Mechanics of Fluids Series, you will learn how to predict the pressure, temperature, and volume changes that occur in the compression and storing of gases. You will also learn to recognize hazards in gas handling and the precautions used to avoid these hazards.	4	СС
PHYSICS OF	GASES & COMPRESSION		•	
A1051	Introduction To Compression	In Introduction to Compression, you will learn about the construction and operation of gas compressors. You will learn about the basic laws of gas behavior and the units of gas measurement. You will learn the nature of compression, including the compression ratio, the heat effects of compression, and the factors affecting compressor horsepower requirements.	4	СС
PHYSICS OF	HEAT & TEMPERATURE			
A1023	Nature of Heat: Fuels and Combustion	The economical operation of a modern plant or refinery depends upon the efficient use of heat energy. Nature of Heat is a series of three learning programs covering Heat and Temperature, Heat Transfer, and Fuels and Combustion. Fuels and Combustion, the third program in the series, covers the nature of combustion. Major topics include basic chemical reactions, combustion requirements, combustion of solid, gas and liquid fuels, combustion reactions, combustion control, and analysis of combustion products.	4	CC
A1021	Nature of Heat: Heat and Temperature	The economical operation of a modern plant or refinery depends upon the efficient use of heat energy. Nature of Heat is a series of three learning programs including Heat and Temperature, Heat Transfer, and Fuels and Combustion. This program, Heat and Temperature, introduces heat as a form of energy, describes its effects on the phases of matter, introduces the differences between amount of heat and intensity of heat, and describes heat of transformation. Evaporation, pressure considerations, superheat, specific heat, the thermal properties of refinery products, and temperature measurements and expansion are also described.	4	СС

Category: Math and Science Fundamentals

Course #	Course Title	Description	Hrs	Lib
A1022	Nature of Heat: Heat Transfer	The economical operation of a modern plant or refinery depends upon the efficient use of heat energy. Nature of Heat is a series of three learning programs including Heat and Temperature, Heat Transfer, and Fuels and Combustion. Efficient use of heat energy includes not only efficient combustion, but also the efficient transfer of heat energy from one place to another. In this second program in the series, Heat Transfer, three methods of heat transfer are presented - conduction, convection and radiation. Other topics include heat transfer in furnaces, heat transfer rate, and heat exchangers, including fixed shell-and-tube, U-tube and floating head.	2	СС

Operator/Plant Administration

Course	Course Title	Description	Hrs	Lib
BEST PRACT	TICES			
A1100	Cost Reduction for	In Cost Reduction for Operators, you will learn important strategies for reducing the waste	2	CC
	Operators	of time, materials, and labor by running equipment at top efficiency and supporting a	_	
	operators	preventive maintenance program. Emphasis is placed on using instruments to accurately		
		determine at which point in a process enough becomes too much. You will also learn ways		
		to avoid fuel and steam waste, heat loss, waste of utilities, and ways to avoid excess		
		equipment loss and repair through a preventive maintenance program.		
A1137	Performing Skills	A performance assessment is a tool that is used to measure, maintain, and improve the	1	CC
A1137	Assessment	behaviors associated with completing a task. Within a process facility, it is imperative that	1	CC
	Assessment	tasks be completed in a safe manner. Safety procedures specify how employees must		
		complete each task within a process facility. In this program, you will learn how to assess job		
		performance to ensure that each employee performs their assigned tasks in a safe manner.		
A1200	Brosses Operator		1	CC
A1200	Process Operator	In Process Operator Responsibilities, you will learn about general duties, training, and task	1	CC
	Responsibilities	observance competency; safety (process, environmental, personal, fire, and chemical); and		
		process and maintenance operations, including shift turnover responsibilities and unit		
		checks. You will also learn about communication and documentation, including radio		
	+	communication practices, log sheet entries, checklists, and permits.		
PS-MNT-	Reports and	In Reports and Communication, you will learn about giving oral reports, including	1	EIAM
RAC-101	Communication	preparation, delivery, visual aids, and handouts; how to structure technical reports; and		
		how to update and mark up diagrams and schematics.		
ENGINEERI	NG DRAWINGS AND DIAGE	RAMS		
PS-MNT-	Engineering Drawings	In Engineering Drawings and Symbols, you will learn about the different types of	0.5	EIAM
ENG-101	and Symbols	engineering drawings, different drawing formats used in creating engineering drawings, the		
		different areas of the drawing, the types of symbols used.		
GENERAL O	PERATIONS KNOWLEDGE		•	•
PS-EIA-	EI&A Field Awareness	In EI&A Field Awareness, you will learn about electrical power systems, emergency power	4	EIAM
EFA-101		systems, AC and DC UPS; cathodic protection, heat tracing, lighting and grounding systems;		
		types of instrumentation systems; types of analyzer systems, and hazard awareness.		
PS-MSO-	Fundamentals of	In Fundamentals of Hazardous Area Classifications, you will learn about the fundamentals of	0.5	MSO
HAC-101	Hazardous Area	Hazardous Areas and equipment protection classifications including explosive limits,		
	Classifications	flashpoint, auto-ignition temperature, ignition energy, and vapor density of material		
		properties; the three different zones of hazardous areas and source of release classification.		
PS-EIA-	Hazardous Area and	In Hazardous Area and Protection Classifications, you will learn about hazardous areas, the	2	EIAM
HAP-101	Protection	combustion triangle, determining area classifications; IEC and NA protection classifications;	_	20,000
101	Classifications	and IP and NEMA equipment protection codes.		
PS-MSO-	Introduction to	Understanding measurement is essential to performing work. In this first program,	1	MSO
MEA-101	Measurement:	Measurement Basics and Standards, you will learn about the universal SI system, the rules	-	10130
WILA 101	Measurement Basics	for writing SI units, and how to make conversions between similar units and SI/Imperial		
	and Standards	conversions.		
OUALITY AS	SSURANCE & CONTROL	CONVENTIONS.		
A1090	Process Control Tests	Process Control Tests is designed to provide operators with knowledge about how process	5	CC
A1090	Process Control rests		5	CC
		control tests are used to aid in the production of high-quality products. You will learn about common tests — what they are, when they are used, and what the tests results mean. You		
		will learn why products are tested, the different kinds of tests, how to obtain a good sample,		
		and to interpret test results. You will also learn some of the more common physical tests,		
		how they are run, what the results mean and how you can use these results as an operating		
		tool. Also covered are some of the more common impurities found in petroleum products,		
		how these impurities affect product quality, and how products are tested for the presence		
		of these impurities. Finally, you will learn about the structure of hydrocarbons, how product		
		composition affects product quality, and some of the tests used to determine product		
		composition.		
A1191	Statistical Process	In Statistical Process Control, you will learn about the operator's role in gathering and analyzing process information and taking corrective action when process problems occur.	3	CC
	Control			



Petroleum Industry Overview

Course #	Course Title	Description	Hrs	Lib
EXPLORATION	N AND PRODUCTION			
PS-EPT-INO-	Drilling Operations and	In Drilling Operations and Systems, you will learn about well function, drilling	3	INO
107	Systems	history, onshore and offshore drilling, drilling programs, drilling rig components,		
		and drilling systems; including drilling, rotating, fluid, and blowout prevention		
		systems.		
PS-EPT-INO-	Exploration Rights and	In Exploration Rights and Surface/Subsurface Technologies, you will learn about	3	INO
106	Surface/Subsurface	basins, plays, and risk analysis, mineral ownership, and contracts; surface		
	Technologies	exploration technologies, such as gravity, magnetic, and geochemical surveys,		
		and seismic imaging and interpretation; and subsurface technologies such as		
		mud logging, appraisal wells, coring, well logging, and drill stem testing.		
PS-EPT-INO-	Hydrocarbon Recovery	In Hydrocarbon Recovery Mechanisms, you will learn about primary recovery	1	INO
110		drives such as dissolved gas (solution gas) drive, water drive, gas cap expansion		
		drive, and combination drives. You will also learn about enhanced oil recovery,		
		including secondary and tertiary recoveries such as water flood, miscible flood,		
		steam cycle, and steam drive, along with expected recovery efficiencies.		
PS-EPT-INO-	Production Technology:	In Production Technology: Flowing Wells and Artificial Lift you will learn about	1	INO
109	Flowing Wells and	production roles; artificial lift, including beam pumps, gas lift, and submersible		
	Artificial Lift	pumps; and production logging and workover operations.		
PS-EPT-INO-	The E&P Asset Life Cycle	In The E&P Asset Life Cycle, you will learn about asset life cycle economics and	1	INO
102		the phases of the asset life cycle, including: exploration, appraisal, development		
		and production, and mature production and enhanced oil recovery.		
PS-EPT-INO-	Well Completion and	In Well Completion and Stimulation, you will learn about casing and cementing,	1.5	INO
108	Stimulation	wellhead installation, types of well completions, formation damage and well		
		perforation, sand control problems and strategies, and well stimulation.		
GAS PROCESS	SING			
PS-EPT-INO-	Gas Processing Overview	In Gas Processing Overview, you will learn about saleable products recoverable	3	INO
114		from raw, produced gas; gas composition and contaminants; sales gas		
		specifications; gas sweetening and dehydration; hydrocarbon liquid products		
		and extraction processes, Nitrogen removal and helium recovery; NGL		
		fractionation/stabilization; NGL product treating; and sulfur recovery and		
		disposal.		
INDUSTRY O				
PS-EPT-INO-	Modern Oil and Gas	In Modern Oil and Gas Industry, you will learn about the historical, geographical,	2	INO
101	Industry	and modern context of the petroleum industry; its organization, the petroleum		
		value chain, and economic drivers.		
MIDSTREAM	INDUSTRY SEGMENT			
PS-EPT-INO-	Overview of the	In Overview of the Midstream Industry segment, you will learn about the	3	INO
112	Midstream Industry	Petroleum Value Chain, the midstream segment, conventional and		
	Segment	unconventional reservoirs, the crude oil and natural gas value chains and value		
		chain investment trends; natural gas terminology, global energy demand and		
		trade, gas production and contracts; and gas processing, including end use		
		products, contaminants and sales gas specifications, gas conditioning,		
		dehydration, hydrocarbon dewpoint control, NGL extraction and stability, and		
		NGL product treating.		
OIL AND GAS				
PS-EPT-INO-	Petroleum Geology	In Petroleum Geology, you will learn about Earth structure and plate tectonics;	4	INO
104		types of rocks, the rock cycle, clastic, biogenic, and chemical source sedimentary		
		rocks; and historical geology, including superposition, index fossils, depositional		
		environments, and global vs. regional stratigraphy.	<u> </u>	
PS-EPT-INO-	Petroleum Reservoirs	In Petroleum Reservoirs, you will learn about basins and plays, unconventional	5	INO
105		resources, and petroleum systems; reservoir rock properties: porosity and		
		permeability, grain size, distribution, and sorting; and fluid distribution and flow		
		characteristics. You will also learn about structural and stratigraphic traps,		
		reservoir mapping, reservoir phase behavior and fluid properties, reservoir		
		classification, and phase diagrams.	ĺ	



Category: Petroleum Industry Overview

Course #	Course Title	Description	Hrs	Lib
PS-EPT-INO- 103	Reservoir Fluids	In Reservoir Fluids, you will learn about reservoir fluids, physical and chemical properties, and the impact on these properties at reservoir and surface conditions.	1	INO
PETROCHEMI	CALS			
PS-EPT-INO- 119	Introduction to Solvents	In Introduction to Solvents, you will learn about basic solvent chemistry, its purpose and selection. Solvent chemistry, including types of bonds, electronegativity, and polar bonds are covered. Polar (protic and aprotic) and non-polar types of solvents are explained, as well as what defines organic and inorganic solvents. Chemical and hydrocarbon solvent properties, are covered, such as viscosity, solubility, relative evaporation rate (RER), density, and surface tension, along with health, safety, and environmental considerations. Finally, you will learn about solvent applications, such as paints, sealants, cleaners, and polishes; drilling and metalworking fluids; water treatment; pesticides; concrete release fluids, and heat transfer fluids.	2	INO
PS-EPT-INO- 118	Introduction to the Petrochemical Industry	In Introduction to the Petrochemical Industry, you will learn about the processes and equipment that make up the petrochemical industry. You will be introduced to petrochemical products, including plastics, resins, fibers, and foams; base chemicals and their derivatives, and primary petrochemical feedstocks. You will also review petrochemical chemistry, and learn about petrochemical economic drivers. Finally, you will learn about petrochemical manufacturing; including refinery and chemical processes, such as cat cracking, reforming, isomerization, steam cracking, and extraction.	2	INO
PS-EPT-INO- 117	Steam Cracking	Steam cracking is the main production process for petrochemicals, including ethylene, propylene and butadiene. The process involves breaking long chain hydrocarbons into shorter chains. In "Steam Cracking", you will learn about types of steam crackers and the functions performed in key areas, including the furnace, quench, compression, and chilling and separation sections. You will also learn about the difference between conversion and selectivity and the factors that affect ethane selectivity.	1	INO
PIPELINE SYS	TEMS			
PS-EPT-INO- 113	Pipelines and Storage Systems	In Pipelines and Storage Systems, you will learn about the different hydrocarbon transportation systems, advantages of pipelines, pipeline projects, pipeline construction and types of pipelines; pipeline system design and components; pipeline problems and protection; and pigging. In addition, you will learn about hydrocarbon storage systems for liquids and gases, including appropriate types of tank designs and use of depleted reservoirs and salt caverns.	2	INO
REFINING				
PS-EPT-INO- 115	Fundamentals of Refining	In Fundamentals of Refining, you will learn about the refining industry as part of the downstream petroleum value chain including characteristics of crude oil and the refining products made from it, refining economics, a typical refinery configuration with its process streams and units.	2	INO
SURFACE PRO				
PS-EPT-INO- 111	Surface Processing of Produced Fluids	In Surface Processing of Produced Fluids, you will learn about the integrated production system, fluid separation, emulsion breaking, crude products, gas separation and natural gas processing, NGL usage, and natural gas conversion to LNG and GTL.	1	INO

Pipeline Operations

Course #	Course Title	Description	Hrs	Lib
GENERAL P	IPELINE OPERATIONS			
PS-MSO-	Hydrates	In Hydrates, you will learn about hydrate formation and detection; hydrate	1	MSO
HYD-101	11,4.4.65	prevention equipment and methods, and handling hydrates.	-	
PS-MSO-	Pipeline Commissioning	In Pipeline Commissioning, you will learn about dry and wet commissioning, pre-	1	MSO
COM-101	Tipeline commissioning	checks, the commissioning process, and completion.	-	11130
PS-MSO-	Pipeline Isolation	In Pipeline Isolation, you will learn about isolation pre-checks, isolating a pipeline,	1	MSO
ISO-101	Tipeline isolution	and potential hazards.	-	14130
PS-MSO-	Pipeline Purging with	In Pipeline Purging with Nitrogen, you will learn about Nitrogen purging pre-	1	MSO
PRG-101	Nitrogen	checks, initiating the purge, completing the purge, and purging hazards.	-	14130
PS-MSO-	Remote Pipeline Startup	In Remote Pipeline Startup and Shutdown, you will learn about remote pipeline	1	MSO
RSS-101	and Shutdown	pre-checks and startup steps, post-startup field checks, remote pipeline shutdown	-	IVISO
1.00 101	and shataown	pre-checks, shutdown tasks, and potential hazards.		
PIGGING		pre effection, strategoriff casto, and potential frazultas.	1	
	Internal vetice to Dissipe	In lateral estimate Dissipator was will leave about single common and the second single	1	NACO
PS-MSO-	Introduction to Pigging	In Introduction to Pigging, you will learn about pigging components, types of pigs,	1	MSO
PIG-101	Die Leurenkinge auch	the pigging operation, safety, and troubleshooting a missing or stuck pig.	_	N 46 C
PS-MSO-	Pig Launching and	In Pig Launching and Receiving, you will learn about pig launching and receiving	2	MSO
PIG-102	Receiving	pre-checks, preparing the trap barrel to launch or receive a pig, loading, launching,		
		and receiving procedures; pig removal, returning the trap to normal, and potential		
DC MCO	Displica In Line Increation	hazards.	0.75	NACO.
PS-MSO-	Pipeline In-Line Inspection	In Pipeline In-Line Inspection (ILI) Tools, you will learn about the function and of	0.75	MSO
PIG-104	Tools	different types of in-line inspection tools, including magnetic flux leakage (MFL) tools; geometry/caliper tools, such as inertia mapping units IMU) and multi-		
		The state of the s		
DC MACO	Data Lavrah Automatia	channel caliper units; crack detection tools, and potential hazards.	0.5	DACO.
PS-MSO-	Roto-Launch Automatic	In Roto-Launch Automatic Multiple Pig Launcher, you will learned about the	0.5	MSO
PIG-103	Multiple Pig Launcher	multiple pig launching system including system overview, benefits of a multiple		
		launching system, rotary and "pig caddie" type launchers, isolation valve and		
		pipeline adapter.	.	
	INDAMENTALS	T		
PS-MSO-	Flowing Pipeline Hydraulics	In Flowing Pipeline Hydraulics, you will learn about calculating flowing pipeline	2	MSO
FPH-101		hydraulics, including flow rate and friction factor, relative roughness and Reynold's		
		number, pressure drop, converting pressure profiles to hydraulic profiles and		
		finding interface head and hydraulic gradient; how vapor pressure affects pipeline		
		pressure, backpressure requirements in static and flowing pipelines, maximum		
DC 1460		operating pressure, and pipeline surge or "hammer".	2	1160
PS-MSO-	Introduction to Pipeline	In Introduction to Pipeline Hydrocarbons, you will learn about natural gas and	2	MSO
IPH-101	Hydrocarbons	natural gas products; hydrocarbon compounds and isomers; natural gas		
		impurities; crude oil molecular composition and classification; and oil sands and		
		bitumen processing.		
PS-MSO-	Pipeline Batching	In Pipeline Batching, you will learn about batching operations, interface	1	MSO
BAT-101		management, measurement devices, and field operations batching requirements.		
PS-MSO-	Pipeline Flow	In Pipeline Flow and Static Pipeline Hydraulics, you will learn about pipeline flow,	2	MSO
PFC-101	Characteristics and Static	including multiphase flow, and types of liquid slugs and slug catchers; and static		
	Pipeline Hydraulics	pipeline hydraulics, including specific and API gravity, pressure and elevation,		
		calculating hydraulic gradient and static pressure, and the control point.		
PS-MSO-	Pipeline Hydrocarbon	In Pipeline Hydrocarbon Measurement and Testing, you will learn about flow	5	MSO
PHM-101	Measurement and Testing	measurement, including flow rate, types of flow, pressure and factors that affect		
		flow and flow meters; density measurement, including specific, API, and Baume		
		gravity, and density measuring instruments; conductivity and turbidity		
		measurement and turbidity meters; pH and pH meters; and dew point testing,		
		including water and hydrocarbon dew point, cricondentherm temperature, and		
		hydrocarbon dew point control and measurement.		
PIPELINE SY	STEMS			
PIPELINE SY PS-MSO-	CSTEMS Chemical Injection Systems	In Chemical Injection Systems, you will learn about the function of chemical	0.75	MSO
		In Chemical Injection Systems, you will learn about the function of chemical injection systems, injection method selection, components, and characteristics;	0.75	MSO



Category: Pipeline Operations

Course #	Course Title	Description	Hrs	Lib
PS-MSO- IPS-101	Introduction to Pipeline Systems	In Introduction to Pipeline Systems, you will learn about pipeline design and components; monitoring pipelines with corrosion protection and pigging; and gas and liquid pipeline system storage and transportation.	2	MSO
PS-MSO- MOS-101	Mercaptan Odorizing Systems	In Mercaptan Odorizing Systems, you will learn about mercaptan properties, types of odorizing systems, mercaptan detection and hazards, and odorizing (stenching) a propane rail car.	1	MSO
PS-MSO- NDE-101	Non-Destructive Examination (NDE)	In Non-Destructive Examination (NDE), you will learn about the function and different types of NDE, including Ultrasonic Testing (UT), Radiographic Testing (RT), Magnetic Particle Inspection (MPI), and EDDY current testing.	0.5	MSO
PS-MSO- PBS-101	Pipeline Bridge Systems	In Pipeline Bridge Systems, you will learn the purpose for a pipeline bridge system crossing and inspection methods used to maintain a safe operating structure.	0.5	MSO
PS-MSO- CRS-101	Pipeline Crossings	In Pipeline Crossings, you will learn about types of pipeline crossings, roles and responsibilities, starting the process and possible hazards, right-of-way (ROW) activities, and hydrovac guidelines.	1	MSO
PS-MSO- IES-101	Pipeline Input/Feed and Export Systems	In Pipeline Input/Feed and Export Systems, you will learn about input/feed systems, LACT units, export systems, ESDs, and possible input/export system hazards.	1	MSO

Process Safety

Course	Course Titles	Description	Hrs	Lib
EMERGEN	CY PLANNING & RESPONSE		•	•
A1112	Fire Fighting: Extinguishing Agents	Fire Fighting is a series of five learning programs which primarily focus on the principles of fighting Class B fires involving oils and gases. In this program, Extinguishing Agents, you will learn about the use of water, foam, carbon dioxide, dry chemicals, halons, and dry powders for controlling or extinguishing fires and for protecting men and equipment. You will also learn about proper hose handling and how to use small and large handlines, monitors, and fixed spray systems.	4	СС
A1111	Fire Fighting: Fuels and Combustion	Fire Fighting is a series of five learning programs which primarily focus on the principles of fighting Class B fires involving oils and gases. In this program, Fuels and Combustion, you will learn that fire is combustion requiring fuel, oxygen, and a source of ignition. You will also learn about the flammability of typical liquid and vapor fuels, the sources of oxygen, the sources of ignition, and the causes and effects of various kinds of explosions and detonations. Finally, you will learn the three ways of extinguishing fires—quenching, smothering, and starving—and the techniques of dispersing flammable vapors to keep them from igniting or re-igniting during a fire.	3	CC
A1113	Fire Fighting: Portable Fire Extinguishers and Foams	Fire Fighting is a series of five learning programs which primarily focus on the principles of fighting Class B fires involving oils and gases. In this program, you will learn about portable fire extinguishers, which are the first line of defense in many fire situations. This program covers how to select and operate them properly. You will also learn about the construction of CO2 and dry chemical extinguishers and how they are used for putting out small fires. Finally, you will learn about the use of foam for extinguishing large area flat fires, and how both chemical foams and air foams are prepared and applied.	4	CC
A1114b	Fire Fighting: Strategies	Fire Fighting is a series of five learning programs which primarily focus on the principles of fighting Class B fires involving oils and gases. Your ability to prevent a fire or react to a fire emergency may depend on how well you planned ahead for that particular situation. Planning ahead means that you have identified fire problem areas, developed the appropriate action plans, and prepared to fight a fire with the proper firefighting equipment, techniques and tactics. In this program, you will learn pre-fire planning and basic strategy. You will also learn strategies for fighting tank and dike fires. Finally, you will apply what you have learned in exercises that cover all different types of fires.	3	СС
A1114a	Fire Fighting: Tactics	Fire Fighting is a series of five learning programs which primarily focus on the principles of fighting Class B fires involving oils and gases. The way you attack a fire depends on several different factors, including how the fuel is burning and the location of the fire. It is important that you know and can implement the correct attack for any type of fire. In this program, you will learn the tactics of hose handling, of operating valves under fire exposure, of using dry chemical and foam, and of protecting pressure vessels.	3	СС
PROCESS S	AFETY MANAGEMENT			
A5050	Introduction to Process Safety Management (PSM)	Introduction to Process Safety Management (PSM) is designed to help you meet the training requirements of OSHA 29 CFR 1910.119. You will learn about how PSM works to protect people and the environment and what you can do to prevent accidental releases.	0.75	EHS
PS-PSM- PSO-107	Process Safety in Operations: Audits and Key Performance Indicators	It is important to monitor systems and establish performance measurements so that we can improve. In Operations, the plant, procedures and practices can degrade over time. This program will review steps we take in order to be alert to changes and correct deficiencies.	0.5	PSM
PS-PSM- PSO-106	Process Safety in Operations: Emergency Response and Incident Investigation	The plant and facilities need to be prepared to deal with unforeseen events and have plant, equipment and procedures in place to mitigate the consequences of an incident. This is commonly referred to as an Emergency Response Program. This program reviews typical steps within emergency response and preparedness and how these take Process Safety into consideration. We also examine the importance of incident investigation in process safety.	1	PSM



Category: Process Safety

Course	Course Titles	Description	Hrs	Lib
PS-PSM- PSO-102	Process Safety in Operations: Hazards	In this program, you will review hazard identification within the Risk Assessment process and explore various hazards, material properties and reactions, and how these conditions and failures impact process safety. You will be introduced to the use of hazard scenario used when designing a plan and the tools used to identify hazards for Process Safety Management (PSM).	1	PSM
PS-PSM- PSO-101	Process Safety in Operations: Introduction	Understanding Process Safety is important at all levels of the organization. This program introduces Process Safety in the industry, reviews global Process Safety incidents and consequences, and acquaints the learner with components of Process Safety Management (PSM) including concept design, detailed design and steps to manage Process Safety in operations.	0.75	PSM
PS-PSM- PSO-105	Process Safety in Operations: Management of Change	To ensure that change (equipment, procedural, or organizational) does not bring risk with it, we have processes for managing the change. Process Safety is a key piece throughout the required steps. This program will introduce change and the management of change in the plant in light of Process Safety Management.	0.75	PSM
PS-PSM- PSO-104	Process Safety in Operations: Projects, Construction and Operations	From an Operations perspective, process safety is critical. This program will review the role of Process Safety during Project initiation and construction phase into Operations. Operations teams must operate, inspect and maintain the equipment, plant and risk reduction measures to ensure they are working effectively in order to manage the risk of a major incident.	1.5	PSM
PS-PSM- PSO-103	Process Safety in Operations: Risk Management	Once we have identified hazards and scenarios, we move toward Risk Assessment and Risk Management steps to reduce risks and identify barriers of protection. In this program you will be introduced to the role of Risk Analysis in the Risk Assessment process and become acquainted with key Risk Analysis tools. With these tools, we will review and select risk reduction measures and how to use the Bow-Tie model and its use in Risk Management.	1.5	PSM
SAFE WOR	RK PRACTICES		·	•
A1197	Job Hazard Analysis and Stop Work Authority	Working within the process industry can result in exceptionally high safety risks, and employers put programs in place to reduce the likelihood of accidents and injuries. Job Safety Analysis (JSA) and Stop Work Authority (SWA) require all employees to watch for safety risks and potential hazards. In this program, you will learn about JSAs and SWA and how you can help implement both.	1	CC
A1170	Safe Handling of Light Ends	In this program, you will learn the physical properties of gaseous hydrocarbons that create hazards, and the special handling and safety procedures that are required.	3	CC
A1190	Safe Laboratory Operations	Laboratory analysis of incoming raw materials and outgoing products has always been a vital concern in the refining, petrochemical and chemical industries. Due to the nature of the materials being tested and the equipment required to perform the necessary tests, safety in the laboratory is a must. Safe Laboratory Operations approaches laboratory safety from the viewpoint that most laboratory procedures involve common safety considerations - personnel attitude, handling hazardous materials, flammability of samples, sources of ignition, handling compressed gases, hazards associated with glassware, personal protective equipment and mechanical safeguards. The program concludes by providing safety information on a variety of specific tests and test equipment: LPG sampling, flash point test, Reid vapor pressure test, test for viscosity, distillation apparatus and vacuum distillation test equipment.	4	СС

Mechanical Maintenance

Course #	Course Title	Description	Hrs	Lib
AIR COMPRI	ESSORS			
A1050	Air Compressors	In Air Compressors, you will learn about the different types and applications used in the oil and gas industry including their principles of operation based upon Boyle's and Charles gas laws, reciprocating and rotary positive displacement compressors, and centrifugal, ejector and axial flow dynamic compressors.	1	CC
CENTRIFUGA	AL COMPRESSORS			
A1053a	Centrifugal Compressors: Introduction	In the hydrocarbon processing and production industry, gas is compressed for transportation to consuming markets and for use in processing operations. This program is about the construction and operation of compressors. In this program you will learn the construction, principal parts, and operation of reciprocating compressors.	3	CC
A1053b	Centrifugal Compressors: Construction and Operation	In the hydrocarbon processing and production industry, gas is compressed for transportation to consuming markets and for use in processing operations. This program is about the construction and operation of compressors. In this program you will learn about the construction and operation of centrifugal compressors.	4	CC
CENTRIFUGA	AL PUMPS			
A1071b	Centrifugal Pumps: Equipment and Operation	Centrifugal pumps are machines which use centrifugal force to move liquids. In this program, you will learn about the construction of pump parts, including packing boxes, seals, bearings, balancing drums, and couplings. You will learn the relation of alignment and misalignment to vibration, how pumps are lubricated, and how they are cooled in operation. Finally, you will learn the details of pump operation including start-up, normal operation, and shut-down. You will learn what the common problems of centrifugal pump operation are and how to spot and correct them, and how to maintain the pumps for dependable, safe operation.	4	сс
A1071a	Centrifugal Pumps: Introduction	Centrifugal pumps are machines that use centrifugal force to move liquids. In this program, you will learn the principles, parts, and general operation of these pumps, what pump efficiency is, and how head and pressure are calculated.	3	CC
COMPRESSO	R PERFORMANCE		,	•
PS-MSO- GCP-201	Gas Compressor Performance	In Gas Compressor Performance, you will learn about performance differences between centrifugal, reciprocating, and screw compressors, including capacity, conditions that affect compressor performance, and pressure/volume (P/V) diagrams.	1	MSO
CONDITION	MONITORING		•	
PS-MNT- CMO-105	Condition Monitoring - Agitators and Mixers	In Condition Monitoring - Agitators and Mixes, you will learn about agitator and mixer detectable faults and common problems.	0.5	EIAM
PS-MNT- CMO-102	Condition Monitoring - Compressors	In Condition Monitoring - Compressors, you will learn about centrifugal, axial, reciprocating, and screw compressor monitoring.	1	EIAM
PS-MNT- CMO-103	Condition Monitoring - Pumps	In Condition Monitoring - Pumps, you will learn about centrifugal and positive displacement pump detectable faults and allowable vibration.	1	EIAM
PS-MNT- CMO-104	Condition Monitoring - Turbines, Fans and Blowers	In Condition Monitoring - Turbines, Fans and Blowers, you will learn about turbine diagnostics, critical speeds, and vibration limits; common problems with fans and blowers.	1	EIAM
PS-MNT- RED-101	Rotating Equipment Condition Diagnosis	In Rotating Equipment Condition Diagnosis, you will learn about vibration theory, including harmonic motion, RMS vs. peak, time and frequency domain; FFT algorithms, frequency spans, spectrum, and measurement basics; accelerometers; vibration due to imbalance, misalignment, or looseness; gear problems; bearing failures; peak-vue analysis; severity charts and standards; oil analysis; and selecting measurement parameters to determine optimum maintenance intervals.	5	EIAM



Course #	Course Title	Description	Hrs	Lib
COUPLINGS	AND GEARS			
A1085b	Couplings, Gear Trains, and V-Belts: Gear Trains and V- Belt Drives	This program covers two different ways prime movers or drivers are connected to driven equipment, the special advantages and problems of each of the different ways, and the adjustment and preventive maintenance of different types of coupling equipment. Also covered are the physical principles of power transmission, and the relationship of speed and torque as different forms of power. You will learn about simple and compound gear trains, and how gear trains may be used as speed changers or torque increasers. You will learn about spur, helical, double-helical, bevel, and worm gears, and the uses of each. You will learn about gear lubrication and about handling the shock loads that your equipment applies to gears. Finally, you will learn about the construction and uses of the different types of single and multiple V-belt drives, the use of V-belt drives as speed changes, the adjustment and replacement of V-belts, and the control of slippage.	4	СС
A1085a	Couplings, Gear Trains, and V-Belts: Machine Connections and Couplings	This program covers one-way drivers are connected to driven equipment. You will learn about the special advantages and problems associated with couplings, and their adjustment and preventive maintenance requirements. In this program, you will learn about the causes and control of misalignment, end float, surges in torque, and the different basic types of rigid and flexible couplings.	3	CC
DYNAMIC CO	OMPRESSORS			
PS-MNT- DYC-102	Dynamic Compressor Systems, Seals and Routine Tasks	In Dynamic Compressor Systems, Seals and Routine Tasks, you will learn about compressor construction, systems, bearings, balancing drums, seals and routine tasks including safe startup and shutdown.	5	EIAM
PS-MNT- DYC-101	Dynamic Compressors: Introduction and Operation	In Dynamic Compressors: Introduction and Operation, you will learn about energy and compression, centrifugal and axial compressors; compression ratio and capacity, head of compression, R, RPM, and horsepower.	4	EIAM
DYNAMIC PU	<i>JMPS</i>			
PS-MNT- DYP-101	Dynamic Pumps	In Dynamic Pumps, you will learn about fluid flow, dynamic pump properties and applications; installing, removing, and maintaining dynamic pumps; types of seals and seal maintenance; performing a major pump overhaul, and troubleshooting.	5	EIAM
A1070	Introduction to Dynamic Pumps	In Introduction to Dynamic Pumps, you will about fluid flow, dynamic pump classifications and properties of the two dynamic pump types - axial and centrifugal.	1	CC
FANS AND B	LOWERS	· · · · · · ·	1	
PS-MNT- FBL-101	Fans and Blowers	In Fans and Blowers, you will learn about centrifugal, cross-flow, and axial flow fans, mechanical draft, positive displacement, and dynamic blowers; fan and blower system characteristics, and fan efficiency.	3	EIAM
PS-MNT- FBL-102	Fans and Blowers Maintenance	In Fans and Blowers Maintenance, you will learn about performing routine and extended maintenance on fans and blowers, including belt, bearing, fan, motor, and other component inspections; fan and blower installation and removal; and assessment and troubleshooting.	2	EIAM
GAS TURBIN	ES			
A1083b	Combustion Gas Turbines: Equipment and Operation	In Combustion Gas Turbines: Systems and Operation, you will learn about the functions of casing seals, bearings and lubrication in a combustion gas turbine. The program also covers the control and operation of combustion gas turbines, including start-up, operating, and shutdown procedures, and the control of vibration, critical speed, and turbine imbalance. Finally, you will learn about temperature control, the use of turning gears, and turbine control using the automated control panel. Through this understanding of turbine principles, construction, and control, you will be better able to secure efficient and safe turbine operation.	4	CC
A1083a	Combustion Gas Turbines: Introduction	In Combustion Gas Turbines you will learn the operating principles of the compressor, the combustion chamber, and turbine section. You will also learn about the construction of the compressor, combustion chamber, and turbine section; the blading arrangement; and the use of the turbine as a driver and hotgas generator. Also covered is turbine auxiliary equipment such as starting devices, governors, and overspeed mechanisms, and their functions.	4	CC

Course #	Course Title	Description	Hrs	Lib
PS-MNT- GTU-101	Gas Turbines for Technicians	In Gas Turbines for Technicians, you will learn about gas turbine classification, operation, components, and applications; routine and extended maintenance; and gas turbine troubleshooting, including lubrication, vibration, and efficiency problems.	5	EIAM
	OMBUSTION ENGINES			
A1084a	Internal Combustion Engines: Introduction	Internal combustion engines are engines which burn fuel in a cylinder to produce power. Presented in this program are the principles of the internal combustion engine, and its general operation and parts. You will learn how the combustion cycle differs in 2-cycle and 4-cycle engines. You will also learn some of the more common cylinder arrangements. Also covered are the details of the construction of an internal combustion engine, including the camshaft, carburetor, natural gas admission system, safety devices, and the electrical system. You will learn how each of these parts functions as a part of the total engine. Finally, you will learn the principles of a diesel engine, how it operates and how it differs from the traditional IC engine.	4	СС
A1084b	Internal Combustion Engines: Operating Techniques	Internal combustion engines are engines which burn fuel in a cylinder to produce power. In this program, you will learn the details of the auxiliary systems of IC engines and how they operate, including the cooling system, lubrication system, air cleaners, superchargers and exhaust systems. You will also learn the operation and maintenance of the engine, how to read an instrument panel and interpret gauge readings, typical engine start-up and shut-down procedures, and preventive maintenance procedures for daily, weekly and monthly checks.	3	СС
PS-MNT- SPP-101	Spark Plugs	In Spark Plugs, you will about learn the purpose, design characteristics and selection criteria of spark plugs; common failure causes; typical removal and installation procedures.	1	EIAM
MIXERS AND	O BLENDERS			
PS-MNT- MXB-201	Mixers and Blenders	In Mixers and Blenders, you will learn about the difference between liquid and solid blending; solids mixing, including convective, shear, and diffusive mixing; fluids mixing, including bulk transport, molecular diffusion, and turbulent and laminar mixing; semi-solid mixing; advantages and disadvantages of batch and continuous mixing; types of mixing equipment, including blenders, agitators, and heavy duty mixers.	1	EIAM
POSITIVE DI	SPLACEMENT COMPRESSORS			
A1052b	Positive Displacement Compressors: Construction and Operation	In the hydrocarbon processing and production industry, gas is compressed for transportation to consuming markets and for use in processing operations. This program is about the construction and operation of compressors. In this program you will learn the construction, principal parts, and operation of reciprocating compressors.	4	CC
A1052a	Positive Displacement Compressors: Introduction	In the hydrocarbon processing and production industry, gas is compressed for transportation to consuming markets and for use in processing operations. This program is an introduction to positive displacement compressors. In this program you will learn the operating principles of reciprocating compressors, the different types of rotary compressors, and techniques for controlling compressor output.	3	СС
	SPLACEMENT PUMPS			
PS-MNT- PDP-101	Positive Displacement Pumps for Technicians	In Positive Displacement Pumps for Technicians, you will learn about pump classification, drives, pump installation and removal, routine maintenance, and troubleshooting.	3	EIAM
A1072b	Positive Displacement Pumps: Equipment and Operation	Positive displacement pumps are reciprocating and rotary pumps that move liquid by the positive displacement of liquid volume. In this program, you will learn about packing, lubrication, and cooling systems, the construction and operation of pump valves, pulsation dampeners and suction stabilizers, variable displacement devices and bypasses and relief valves. Finally, you will learn startup and shutdown procedures, how to recognize and solve common pumping problems; and proper operating maintenance.	4	CC

Course #	Course Title	Description	Hrs	Lib
A1072a	Positive Displacement Pumps: Introduction	Positive displacement pumps are reciprocating and rotary pumps that move liquid by the positive displacement of liquid volume. In this program, you will learn the operating principles and performance characteristics of positive displacement pumps, what determines their capacity, pressure, horsepower and efficiency, and how NPSH is calculated. You will also learn the basic types of reciprocating and rotary pumps, including piston pumps, plunger pumps, diaphragm pumps, direct-acting steam and air pumps, and rotary lobe, vane, gear and screw pumps, and how these pumps differ from each other in design and performance.	4	СС
	ING COMPRESSORS	In Designation Community will be under the state of the least section of	T -	FIARA
PS-MNT- RCO-101	Reciprocating Compressors	In Reciprocating Compressors, you will learn about positive displacement (PD) compressor performance, stages, and construction, lubricated compressors and labyrinth pistons; compression cycle and compression ratio, P-V diagrams, double-acting cylinders; capacity control; cylinder arrangement and components; lubrication and cylinder cooling systems; installing and maintaining reciprocating compressors; preventive maintenance, and troubleshooting.	5	EIAM
SCREW COM	PRESSORS			
PS-MSO- SCC-101	Screw Compressor Components and Auxiliary Equipment	In Screw Compressor Components and Auxiliary Equipment, you will learn about screw compressor components, including rotors, bearings, balance piston, shaft seals, and stepless capacity control; along with auxiliary systems such as suction scrubbers, oil system, oil cooling, economizer, and utilities.	2	MSO
STEAM ENGI	NES AND PUMPS			
A1086a	Steam Engines and Pumps: Introduction	In Introduction to Steam Engines and Pumps, you will learn about steam engine and pump basics, steam engine and pump valves, constructing steam engines and pumps, and steam engine control.	4	CC
A1086b	Steam Engines and Pumps: Operation and Maintenance	In Steam Engines and Pumps: Operation and Maintenance, you will learn about steam engine control systems, steam engine lubrication, operation and maintenance, and steam pumps.	4	CC
STEAM TURE	BINES			
A1082b	Steam Turbines: Equipment and Operation	Steam turbines may differ from one another in size, appearance, and construction, but all steam turbines are similar in operation and work on similar principles. In this program, you will learn about the construction of the turbine, including rotor and casing, diaphragms, seals, and packing boxes, and labyrinth and carbon ring packing. You will also learn about the construction of the bearings and bearing combinations used in turbines, of single- and multi-valve governors, and of the oil circulation system. And finally, you will learn turbine operation and operating problems; the effects of pressure, heat, and steam condensation; uneven heating and cooling; leakage of steam; vibration; lubrication and lubrication problems; speed adjustment, instrumentation, and the visual inspections that must be conducted before startup. With this understanding of turbine principles, construction and control, you will be able to ensure the efficiency and safety of turbine operations.	4	сс
A1082a	Steam Turbines: Introduction	Steam turbines may differ from one another in size, appearance, and construction, but all steam turbines are similar in operation and work on similar principles. In this program, you will learn how impulse and reaction turbines convert thermal energy to mechanical energy, how condensing and noncondensing turbines work, how turbine speed is controlled, and how the overspeed trip protects the turbine against failure of other speed controls.	3	CC

Stationary Equipment

Course #	Course Title	Description	Hrs	Lib
BOILERS				
A1145	Steam Boiler Operations	Steam boilers are used in stationary applications to provide heat, hot water, or steam. A boiler provides an efficient way to transfer stored thermal energy from a fuel source to the water in the boiler, and then to an end application. In this program, you will learn about steam boiler process chemistry and process flow.	4	CC
PS-MNT- SBO-101	Steam Boilers	In Steam Boilers, you will learn about steam boiler operation and classification, routine and extended maintenance, troubleshooting and causes of corrosion failure.	2.5	EIAM
	AND PROCESS VESSELS	1.01.02		
PS-MNT- CPV-101	Columns and Process Vessels	In Columns & Process Vessels, you will learn about components and functions of process vessels; regulations and standards for performing inspections, internal and external inspections; and packed and tray tower internal and external repairs and maintenance.	3	EIAM
CONDENS	ERS		,	
A1075	Condensers	In Condensers, you will learn about condenser function, aerial coolers, inefficient cooling transfer, including fouling, damage, fin delamination, reduced and inefficient air flow; water cooled exchangers, and back-flushing water cooled exchangers.	1	CC
FIRED HEA	TERS			
A1165	Fired Heaters: Equipment and Design	The major source of energy consumption in a refinery, chemical, or petrochemical plant is fuel for fired heaters. Fired heaters are used in many process operations such as distillation, reforming, olefins manufacturing and hydrocracking. Almost every unit in a plant or refinery is equipped with some type of fired heater. With the rising cost of fuel, efficient operation of these furnaces can save hundreds of thousands of dollars for a company each year. In this program, you will learn about basic furnace operating principles of fired heaters and details of equipment construction and function.	3	СС
A1166	Fired Heaters: Operating Techniques	The major source of energy consumption in a refinery, chemical, or petrochemical plant is fuel for fired heaters. Fired heaters are used in many process operations such as distillation, reforming, olefins manufacturing and hydrocracking. Almost every unit in a plant or refinery is equipped with some type of fired heater. With the rising cost of fuel, efficient operation of these furnaces can save hundreds of thousands of dollars for a company each year. In this program, you will learn about safe and efficient operating procedures for fired heaters, including variables that are monitored on the process and combustion sides of the furnace, and the major steps and safety measures in furnace startup, shutdown, and emergency shutdown.	4	СС
FURNACE				
A1032	Furnace Operations: Working With Furnaces	Few aspects of operation are more sensitive or more potentially hazardous than furnace startup and shutdown. This program leads you through these two important procedures to a complete understanding of the rigorous order of successive steps required and the way to accomplish each step prudently. Finally, you will be presented with several situations that can be brought under control by an astute application of the general principles of furnace operation. Each situation is adapted from an actual incident from the history of petroleum refining. You will examine real symptoms, consider their significance and choose a course of action that results in proper and economical firing of the furnace.	4	СС
A1031	Introduction to Furnace Operations	This program describes the furnace and its components. You will learn about how the components function in the total process of making heat and transferring it to the petroleum materials being processed into useful products. Also discussed are the three elements of combustion - fuel, air, and a source of ignition - and the way these elements are combined under controlled conditions in the furnace. Providing air for combustion in sufficient quantity for maximum release of heat is the normal day-to-day task of the operator. This program discusses the operation and use of air control equipment and the indicators and analyzers that make strict regulation of the air supply possible. Proper control of air minimizes the consumption of fuel and extends the life of furnace equipment. Operators who develop the ability to regulate air supply within narrow limits contribute to the economy of heat production and extended life of the equipment.	4	СС



Category: Stationary Equipment

Course #	Course Title	Description	Hrs	Lib
HEAT EXC	HANGEDS			
PS-MNT-	Heat Exchangers for	In Heat Exchangers for Technicians, you will learn about types and functions of heat	3	EIAM
HEX-101	Technicians	exchangers, contaminants, cleaning requirements, testing and repairs.	3	LIAIVI
A1160a	Heat Exchangers:	In this program, you will learn about heat transfer as it is applied in modern refining	4	CC
711000	Introduction	techniques, conduction and convection as methods of heat transfer and heat transfer	-	CC
		in tubes. You will also learn the various parts of heat exchangers and their functions,		
		as well as the various types of shell and tube heat exchangers.		
A1160b	Heat Exchangers:	In this program, you will learn about startup and shutdown procedures in heat	3	СС
	Operations and	exchanger operation and maintenance, the various problems of exchanger		
	Maintenance	maintenance, and the flow and mechanisms of various heat exchange systems.		
PS-MNT-	Shell and Tube Heat	In Shell and Tube Heat Exchangers, you will learn about shell and tube components,	3	EIAM
THE-101	Exchangers	exchanger operation and flow paths; cleaning procedures and requirements;		
		contaminants, testing and repairs.		
OII AND G	SAS SEPARATORS	, ,		
A1470	Oil and Gas Separators	In Oil and Gas Separators, you will learn the effects of pressure, temperature, and	3	CC
A1470	On and das separators	density on fluid separation and the function of separator components, such as baffles	3	CC
		and mist extractors. You will learn how the backpressure regulator and the liquid level		
		controller operate to maintain optimum separation conditions. You will also learn to		
		recognize such basic separators as vertical, horizontal, spherical, double-tube, baffling,		
		and metering separators. And, you will be introduced to the related processes of liquid		
		stabilization, stage separation, low temperature separation, gas dehydration, and		
		crude oil dehydration.		
SEPARATO	PC	1		ļ
PS-MSO-	Two Phase and Three	In Two and Three Phase Separators, you will learn about separator function, operating	2	MSO
CTS-101	Phase Separators	pressure; vertical, horizontal, and spherical separators; primary separation, secondary		10130
C13 101	Thase separators	separation, mist extraction, and liquid accumulation sections, and separator external		
		components and controls.		
CTCARATI	I I I I I I I I I I I I I I I I I I I	components and controls.	ļ	
STEAM TU		In Character Turking Combrels was will leave about shows bushing about shows the sisting	1 2	FLANA
PS-MNT-	Steam Turbine Controls	In Steam Turbine Controls, you will learn about steam turbine characteristics,	2	EIAM
STC-101		including turbine stages, blade design, and steam flow direction; controls; types and		
		characteristics of governors; controllers, including startup control, speed, frequency,		
		and load, and shutdown control; and calibrating and troubleshooting steam turbine controls.		
PS-MNT-	Steam Turbines for	In Steam Turbines for Technicians, you will learn about steam turbine operation,	3	EIAM
STU-101	Technicians	components, and classification; routine and extended maintenance, including	3	LIAIVI
310 101	recimicians	inspection, lube oil, bearing, and steam system checks, and troubleshooting.		
1/ALVEC	<u> </u>	inspection, tube on, bearing, and steam system enecks, and troublesmooting.		
VALVES DC MANT	A stustans	In Astrodaya varvoill leave about different toward activations including alastric		FIANA
PS-MNT-	Actuators	In Actuators, you will learn about different types of actuators, including electric, hydraulic, electro-hydraulic, pneumatic piston, and spring and diaphragm actuators;	3	EIAM
ACT-101		control valve action (rotary and sliding stem, direct and reverse acting); and actuator		
		calibration and troubleshooting.		
PS-MNT-	Rotary Stem Valves for	In Rotary Stem Valves, you will learn about the main types of rotary stem valves,	2	EIAM
RSV-101	Technicians	including ball, butterfly, rotating disc, and rotating plug valves; actuators, valve		LIAIVI
1134-101	recimicians	selection considerations; and calibrating and troubleshooting rotary stem valves.		
PS-MNT-	Sliding Stem Valves for	In Sliding Stem Valves, you will learn about types of control valves, components,	3	EIAM
SSV-101	Technicians	accessories, and selecting, maintaining, and troubleshooting sliding stem valves.	3	LIAIVI
PS-MNT-	Special Valves	In Special Valves, you will learn about high pressure steam turbine bypass valves,	1	EIAM
SPV-101	Special valves	steam conditioning valves, high pressure startup bypass valves, noise abatement	1	LIAIVI
3F V-101		valves, and how to calibrate and maintain them.		
PS-MNT-	Valve Accessories	In Valve Accessories, you will learn about valve accessories, including hand wheels,	2	EIAM
VLA-101	valve Accessories	manual levers and loading stations, transducers, air sets, volume boosters, fail-safe		LIAIVI
^ r\\-101		systems, limit switches, and positioners; and calibrating and troubleshooting valve		
		accessories.		
PS-MNT-	Valve Design and	In Valve Design and Characteristics, you will learn about fluid flow in pipes, selecting a	1.5	EIAM
VDC-101	Characteristics	valve, valve body materials, mounting styles, sizing, cavitation, flashing, noise, and	1.5	LIAW
^ DC-TOT	Citatacteristics	flow characteristics.		
DC MANIT	Valvos Inspection Testing	In Valves Inspection, Testing and Repair, you will learn about types of valves, valve	3	EIAN#
PS-MNT- VLV-101	Valves Inspection, Testing	components, specifications and standards; visual inspection, repairs and maintenance,	3	EIAM
A F A - TO T	and Repair			
		removing and installing valves, and pressure testing.		

Category: Stationary Equipment

Course #	Course Title	Description	Hrs	Lib
A1206	Valve Maintenance	This program reviews the various types of valves in piping systems and the maintenance required to keep them in good operating condition. You will learn how to lubricate valves, adjust valve packing, and inspect steam traps.	2	CC
A1140a	Valves: Introduction to Valves	Valves are used to control the flow of liquids and gases. In this program, you will learn about the construction and operation of the most widely used valves, such as gate, globe, plug, and check valves.	4	CC
A1140b	Valves: Operating Valves	Valves are used to control the flow of liquids and gases. In this program, you will learn to operate and maintain valves. You will also learn what valves should be used with various types of service and how to troubleshoot difficulties that may develop due to fouling, leakage, or wear.	3	СС

Utility, Safety and Facility Systems

Course #	Course Title	Description	Hrs	Lib
BOILERS				
PS-MNT-	Introduction to Auxiliary	In Introduction to Auxiliary Boiler Systems, you will learn about the purpose of an	1	EIAM
BOI-101	Boiler Systems	auxiliary boiler system, the different classifications, common boiler accessary equipment, heat recovery equipment, the burner management system, and the operating limits on the typical auxiliary package boiler.		
CHILLERS				
PS-MNT- APC-101	Ambient and Process Chillers	In Chillers, you will learn about process and ambient chillers along with routine maintenance activities for each.	1	EIAM
COMPRESS	ED AIR SYSTEMS		<u> </u>	
PS-MNT- AIR-102	Compressed Air Dryers	In this course, you will learn the purpose and operational theory behind the more common types of air dryers including regenerative, absorption, refrigeration and mechanical dryers, and how they fit into a compressed air system.	1	EIAM
PS-MNT- PNE-101	Pneumatic Systems	In Pneumatic Systems, you will learn about pneumatic system components, common pneumatic valves; working safely with pneumatic systems; schematics and troubleshooting; and removing and installing components.	2	EIAM
PS-MNT- AIR-101	Utility and Instrument Air Systems	In Utility and Instrument Air Systems, you will learn about compressed air systems, components, piping configuration, methods of moisture removal, and the hazards and risks associated with them.	1.5	EIAM
COOLING T	OWERS			
PS-MNT- CTW-101	Cooling Towers for Technicians	In Cooling Towers for Technicians, you will learn about natural draft, louver covered natural draft, mechanical draft, and induced draft types of cooling towers, components, classification and modes of operation; maintaining water and filtration systems, fan and drive systems, heat transfer surfaces, fill pack, drift eliminator, and air inlet louver maintenance, and cooling tower troubleshooting.	5	EIAM
A1150a	Cooling Towers: Introduction	A great deal of process water is used daily within industry to cool process products and equipment. To conserve this potentially scarce resource and to minimize the costs of industrial cooling, much of the water is recycled and used again. This recycling operation is accomplished by utilizing a recirculating water cooling system. The system is composed of two major parts - a heat exchanger that transfers heat from a hot liquid to the cooling water and a cooling tower, which cools the water so that it can be reused. In this program, you will learn about various types of cooling towers and their construction, how they cool to save water and the factors that affect cooling tower performance.	5	СС
A1150b	Cooling Towers: Water Conditioning	Billions of gallons/liters of water are used daily by industry to cool process products and equipment. To conserve this potentially scarce resource and to minimize the costs of industrial cooling, much of the water is recycled and used again. This recycling operation is accomplished by utilizing a recirculating water cooling system. The system is composed of two major parts - a heat exchanger that transfers heat from a hot liquid to the cooling water and a cooling tower, which cools the water so that it can be reused. Because cooling water is recirculated throughout the cooling system, it must be treated to remove or neutralize impurities that would otherwise damage the heat transfer equipment. In this program, you will learn about water conditioning and its effect on the efficiency and upkeep of cooling tower units.	5	СС
ELEVATOR	SYSTEMS	<u>,</u>	•	
PS-MNT- IDE-101	Industrial Elevators	In Industrial Elevators, you will learn about industrial elevator components, safety codes, classifications, differences between freight and passenger elevators; elevator safety, drop and load tests, maintenance; and problem troubleshooting.	2	EIAM
FIRE AND G	AS SYSTEMS			
PS-EIA- FDE-101	Fire Detection	In Fire Detection, you will learn about fire detection systems, including heat, smoke, and flame detectors; hydrocarbon emissions, UV/IR sensors and how to calibrate and troubleshoot these systems.	2	EIAM



Category: Utility. Safety and Facility Systems

Course #	Course Title	Description	Hrs	Lib
PS-MNT- FPS-101	Fire Protection Systems	In Fire Protection Systems, you will learn how about fire protection system components, fire pump types, operation, and maintenance; gas detector system types and sensors; Fire/gas detection system types, control, and operation;	6	EIAM
		fire/gas protection systems, extinguishers, and maintenance, and fire/gas panels and maintenance.		
PS-EIA- FSD-101	Flame Scanning Devices	In Principles of Flame Scanning Devices, you will learn about flame scanning devices, features, and how they operate; calibration, false alarms, proper installation and detection range, the square law, and testing; and maintaining and	2	EIAM
PS-EIA- GDE-101	Gas Detection	troubleshooting fire eye flame scanners. In Gas Detection, you will learn about gas terminology, combustible gas detection, sensor types and features; detector and sensor calibration and troubleshooting.	1.5	EIAM
FLARE SYSTI	FMS	, , , , , , , , , , , , , , , , , , ,	ļ	ļ
PS-MSO- FSF-101	Flare System Fundamentals	In Flare System Fundamentals, you will learn about applications for gas flaring, such as high pressure protection, natural gas processing, solution gas, and well testing; flare systems; flame monitoring; fuel, pilot, makeup, and purge gases; and flare system equipment.	2	MSO
PS-MSO- FSH-101	Flare System Hazards and Ignition	In Flare System Hazards and Ignition, you will learn about gas flaring and flare system safety, including thermal radiation, explosion hazards, liquid carryover, noise, temperature limits and incomplete combustion; flame ignition and detection systems, pilot flame ignition systems, and flare ignition systems.	1	MSO
PS-MSO- FSP-201	Flare System Purging Startup and Shutdown	In Flare System Purging Startup and Shutdown, you will learn about general purging considerations; purging methods, including displacement, dilution, and pressure cycle purging; and flare system startup and shutdown inspection, preparation, and procedures.	1	MSO
PS-MSO- PKD-201	Pumping Out Flare Knockout Drums	In Pumping Out Flare Knockout Drums, you will learn about flare knockout drum function, hazards, knockout drum liquid disposal considerations, ambient air monitoring, and general procedures.	0.5	MSO
	R AND EMERGENCY POWER SYS		1	1
PS-MNT- EMB-101	Emergency Backup	In Emergency Backup, you will learn about emergency power systems, emergency and diesel generator power, critical and essential loads, uninterruptible power supplies (UPS), and standby generator maintenance.	1.5	EIAM
PS-EIA- EPS-101	Emergency Power Systems	In this course, you will learn about emergency power systems and how they compare to standby power systems including power requirements according to international standards; the typical emergency backup system, configuration, and components; and the different types of UPS systems.	1	EIAM
GENERATOR	R SYSTEMS	, , ,		
PS-MNT- DEG-101	Diesel Engine Generators	In Diesel Engine Generator, you will learn about how diesel engine generators work; their main components, including cooling, exhaust, and lubricating systems, engine, battery charger, control panel and main assembly frame; and how to maintain and inspect diesel engines, including general maintenance checks, procedures, and troubleshooting.	2	EIAM
PS-MNT-	Electrical Heat Tracing	In Electrical Heat Tracing, you will learn about electrical heat tracing advantages	4	EIAM
EHT-101	Licetifical fred fracting	and disadvantages; types of heat tracing, including steam tracing, mineral and silicone insulated, constant wattage, power-limiting, SECT, self-regulating polymer, induction heating, and blanket electric heaters; heat tracing applications and precautions; installation and monitoring; maintenance and troubleshooting.		El/ (IV)
HVAC SYSTE	M		•	1
PS-MNT- HVC-101	HVAC Fundamentals	In HVAC Fundamentals, you will learn about the fundamentals of heating, ventilation and air conditioning systems including the types of heat transfer, HVAC system components, HVAC system operation, and the vapor compression and refrigeration cycle.	1	EIAM
PS-MNT- HVC-102	Maintaining HVAC Systems	In Maintaining HVAC Systems, you will learn about the vapor compression cycle, HVAC components, window and package air conditioning unit maintenance; common mechanical faults and component malfunction troubleshooting.	4	EIAM

Category: Utility, Safety and Facility Systems

Course #	ity, Safety and Facility Systems Course Title	Description	Hrs	Lib
HYDRAULIC	SYSTEMS			
PS-MNT- HYD-101	Hydraulic Systems	In Hydraulic Systems, you will learn about hydraulic principles, pressure and flow, hydraulic components; controlling direction, speed, and pressure; hydraulic safety; nitrogen accumulators, maintaining hydraulic systems, storage and handling; hydraulic symbols and schematics, and troubleshooting.	4	EIAM
LIQUID NITH	ROGEN SYSTEMS			
PS-MNT- LNN-101	Liquid Nitrogen Storage Systems	In Liquid Nitrogen Storage Systems, you will learn about the properties and characteristics of nitrogen, the major health hazards and precautions for handling, common industry applications for nitrogen, and the major system equipment in a liquid nitrogen storage system.	0.75	EIAM
PLANT COM	MUNICATION SYSTEMS			
A1192	Plant Radio Communication	In Plant Radio Communication, you will learn how to operate plant radio equipment to communicate effectively and according to FCC rules.	1	CC
PS-MNT- RCS-101	Radio and Communication Systems	In Radio and Communication Systems, you will learn about wired communication systems; intercom and public address systems and maintenance; conventional radio systems, including scanning, simplex and duplex channels, trunked systems, and radio system equipment; paging systems; TETRA radio systems; and closed	5	EIAM
PLANT LIGH	TING			
PS-MNT- PLT-101	Plant Lighting	In Plant Lighting, you will learn about rated life and efficiency of plant lighting; equipment protection ratings; types of lighting, including incandescent, fluorescent, high intensity discharge and LED lamps, and lighting system maintenance.	2.5	EIAM
POWERED I	NDUSTRIAL EQUIPMENT			
PS-MNT- FOM-101	Forklifts	In Forklifts, you will learn about basic principles of forklift operation, applications, pallets and stillages, palletless handling, hydraulically powered fork options, telescopic handlers, inspection and certification.	1	EIAM
PRESSURE S	AFETY DEVICES		•	
PS-MNT- PRS-101	Pressure Relief Safety Devices	In Pressure Relief Safety Devices, you will learn about the purpose of pressure relief safety devices, common types including conventional relief valve, balanced relief valve, pilot operated relief valve and rupture disk; the difference between a full lift, high lift, or low lift pressure relieving safety device, internal material options for the different service conditions and major factors involved in the selection of a pressure relieving safety device.	0.5	EIAM
SECURITY S	STEMS			
PS-MNT- SSY-101	Security Systems	In Security Systems, you will learn about various security systems, sensor types, control methods; hydraulic bollard systems and road blockers, including construction and maintenance; rising arm and sliding gate barriers; turnstiles, card readers and access control; SabreFonic and microwave fence detection systems and repair and maintenance.	5	EIAM
STEAM LINE	S			
PS-MNT- SCH-101	Steam Condensate Hazards and Removal	In Steam Condensate Hazards and Removal, you will learn steam condensate and the risks associated with its presence in a steam system including the formation of condensation and how various types of steam traps are used for steam condensate removal.	0.5	EIAM
PS-MNT- STR-101	Steam Traps	In Steam Traps, you will learn about the purpose, types and classifications of steam traps, how to perform routine and extended maintenance, and how to troubleshoot and test steam traps.	3	EIAM
VENT AND I	RUNDOWN SYSTEM			
PS-MNT- VSR-101	Vent System and Rundown System	In Vent and Rundown System, you will learn about vent stacks and rundown vessels, including vertical and horizontal flash tank operation; internal and external inspections; maintaining stacks and rundown vessels, and packed tower repairs.	2.5	EIAM
WAREHOUS	ING			
PS-MNT- BAM-101	Laydown Yards and Area Management	In Laydown Yards and Area Management, you will learn about identifying and establishing laydown yards, controls and security, and preventive maintenance; scrap yard management, engineering controls, site layout, and contamination control; lubricant storage and spill prevention and recovery; maintenance related buildings, managing resources, and compliance and auditing.	3.5	EIAM

Category: Utility, Safety and Facility Systems

Course #	ity, Safety and Facility Systems Course Title	Description	Hrs	Lib
WATER TREA	ATMFNT			
PS-MNT-	Fundamentals of	In this course, you will learn about the fundamentals of demineralized water	0.75	EIAM
DWT-101	Demineralized Water	treatment systems including the need for boiler water treatment, reverse osmosis		
	Treatment Systems	process and ion exchange cycle operation, regeneration, mixed bed polishing, and		
		selective ion exchange.		
PS-MNT- ROS-101	Fundamentals of Reverse	In Fundamentals of Reverse Osmosis systems, you will learn about the reverse	1	EIAM
KO2-101	Osmosis Systems	osmosis process, the differences between natural and reverse osmosis, pretreatment options and system maintenance.		
PS-MNT-	Potable Water Treatment	In Potable Water Treatment Systems, you will learn about the need for potable	1	EIAM
PWT-101	System	water treatment, types of water contamination, potable water treatment process,	_	LIJ (IVI
-		water disinfection, and reverse osmosis.		
A1102	Wastewater Treatment:	Following preliminary treatment, the different wastewater streams are mixed	3	СС
	Biological Treatment	together to a more or less uniform consistency for further treatment by a process		
	Process	called biological oxidation, also known as the activated sludge process. This		
		process uses microorganisms to digest and break down the organic chemicals in		
		the wastewater, producing treated effluent and sludge. This program examines the		
		equipment used in the activated sludge process and its operation. You will also		
		learn about sludge treatment and disposal methods and examine the various		
		methods of effluent polishing, which further remove suspended solids and hard-		
		to-treat organics before the treated wastewater is discharged as effluent into the environment.		
A1101	Wastewater Treatment:	Wastewater treatment is an increasingly important aspect of refinery and chemical	4	CC
AIIOI	Preliminary Treatment	plant operations. An efficient wastewater plant is not only important from the	7	CC
		standpoint of environmental conservation, but also represents an opportunity to		
		recover and recycle some resources that might otherwise be lost, thereby		
		contributing to the economic success of the overall process operation. In this		
		program, you will learn about important sources of contamination within a typical		
		refinery, and contaminants that various process operations may generate. You will		
		also learn about the various preliminary, or physical, treatment processes that the		
		different wastewater streams must undergo before they are suitable for further		
		processing. The program also covers methods used to remove and recover		
		emulsified oil from wastewater and the different chemical unit operations that are		
11100		used to improve the operation of the physical treatment processes.	2	
A1103	Wastewater Treatment:	The effectiveness of the biological oxidation process is affected by a number of	3	CC
	Process Control	control factors. These factors can be divided into two basic categories, environmental and process-related. The environmental control factors include the		
		organic loading, pH, availability of nutrients, temperature, and presence of toxic		
		substances, and determine the environment in which the biox process takes place.		
		The process-related control factors are adjusted by the operator to achieve the		
		best effluent quality, and include the influent rate, the return activated sludge		
		rate, and the waste activated sludge rate. This program examines the effect each		
		variable has on the process, and the relationship between them. You will also		
		learn strategies that you can use to monitor and optimize the process operation.		
		The program includes some simple calculations that you can perform to determine		
	 	the operating target levels.		
A1104	Wastewater Treatment:	Testing is an important responsibility of the wastewater treatment operator. The	2	CC
	Testing and	biological oxidation (activated sludge) process is very sensitive to changes in its		
	Troubleshooting	operation, so it is critical that you know what tests to run, how to run them, and how to use the test results to keep the process operating effectively. This		
		program covers important tests that a treatment plant operator commonly uses		
		on a daily basis to monitor the operation of the unit. You will learn the units of		
		measurement and the methods of calculating the results of the tests for total		
		solids, volatile solids, and suspended solids. The BOD5 test procedure is covered		
		for general information and methodology. The program also covers the 30-minute		
		sludge-settling test and calculation of the sludge volume index. Because the 30-		
		minute settleability test is a quick, easy test that can be performed without		
		laboratory analysis, the program includes some of the troubleshooting steps you		
		might take, based on some typical results of the 30-minute settleability test.		
PS-MSO-	Water Softening Systems	In Water Softening Systems, you will learn about "hard water" and how it is	1.5	EIAM
WSS-101		softened using ion exchange, lime softening and reverse osmosis processes		

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Course #	Course Title	Description	Hrs	Lib
WEIGHING I	EQUIPMENT			
PS-MNT- WBS-101	Weigh Bridges, Docks Levelers & Scales	In Weighbridges, Dock Levelers and Scales, you will learn about the purpose of weighbridges, dock levelers, and scales, and how to maintain and troubleshoot them.	1	EIAM
PS-MNT- WDV-101	Weighing Devices	In Weighing Devices, you will learn about weighing terminology, types of load cells, sensors, and feeders; truck and rail scales; calibrating weighing devices; and troubleshooting strain gages, load cell electrical problems, and instrumentation and communications problems.	2	EIAM

Core Competency	
A1081	AC Motors for Operators
A1050	Air Compressors
A1130	Basic Mathematics
A1053a	Centrifugal Compressors: Introduction
A1053b	Centrifugal Compressors: Construction and Operation
A1071b	Centrifugal Pumps: Equipment and Operation
A1071a	Centrifugal Pumps: Introduction
A1083b	Combustion Gas Turbines: Equipment and Operation
A1083a	Combustion Gas Turbines: Introduction
A1075	Condensers
A1085b	Couplings, Gear Trains, and V-Belts: Gear Trains and V-Belt Drives
A1085a	Couplings, Gear Trains, and V-Belts: Machine Connections and Couplings
A1620	Electrical Fundamentals
A1186	Electrical System Basics and Diagrams
A1160a	Heat Exchangers: Introduction
A1160b	Heat Exchangers: Operations and Maintenance
A1181	Hydrocarbon Chemistry 101
A2065	Instrumentation: Analyzers and Inferentials
A2063	Instrumentation: Measuring Liquid Level
A2062	Instrumentation: Measuring Pressure
A2061	Instrumentation: Measuring Temperature
A2067	Instrumentation: Process and Instrumentation Drawings
A2066	Instrumentation: Regulatory Control
A2060	Instrumentation: Fundamentals of Control
A2064	Instrumentation: Measuring Flow
A1084a	Internal Combustion Engines: Introduction
A1084b	Internal Combustion Engines: Operating Techniques
A1051	Introduction To Compression
A1070	Introduction to Dynamic Pumps
A1197	Job Hazard Analysis and Stop Work Authority
A1198	Leak Detection and Repair
A1210	Lubrication Concepts
A1044	Mechanics of Fluids: Fluids in Motion
A1041a	Mechanics of Fluids: Introduction to Process Fluids
A1043	Mechanics of Fluids: Static Pressure and Head
A1041b	Mechanics of Fluids: Units of Fluid Measurement
A1042	Mechanics of Fluids: Behavior of Gases
A1023	Nature of Heat: Fuels and Combustion
A1021	Nature of Heat: Heat and Temperature
A1022a	Nature of Heat: Heat Exchange Equipment
A1022	Nature of Heat: Heat Transfer
A1192	Plant Radio Communication
A1052b	Positive Displacement Compressors: Construction and Operation
A1052a	Positive Displacement Compressors: Introduction
A1072b	Positive Displacement Pumps: Equipment and Operation
A1072a	Positive Displacement Pumps: Introduction
A1170	Safe Handling of Light Ends
A1145	Steam Boiler Operations
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Core Competency	
A1086a	Steam Engines and Pumps: Introduction
A1086b	Steam Engines and Pumps: Operation and Maintenance
A1082b	Steam Turbines: Equipment and Operation
A1082a	Steam Turbines: Introduction
A1196	Tank Gauging
A1185	Understanding Electricity
A1140a	Valves: Introduction to Valves
A1140b	Valves: Operating Valves
A1201	Working with Hand Tools
A1208	Working with Power Tools

Downstroam Core Competence	
Downstream Core Competency	T
A1096	Classing Activities
A1207	Cleaning Activities
A1150a	Cooling Towers: Introduction
A1150b	Cooling Towers: Water Conditioning
A1122	Corrosion Control
A1100	Cost Reduction for Operators
A1112	Fire Fighting: Extinguishing Agents
A1111	Fire Fighting: Fuels and Combustion
A1113	Fire Fighting: Portable Fire Extinguishers and Foams
A1114b	Fire Fighting: Strategies
A1114a	Fire Fighting: Tactics
A1165	Fired Heaters: Equipment and Design
A1166	Fired Heaters: Operating Techniques
A1205	Flange Piping
A1095	Fluid Catalytic Cracking
A1032	Furnace Operations: Working With Furnaces
A1031	Introduction to Furnace Operations
A1137	Performing Skills Assessment
A1202	Pipe Fitting Basics
A1014	Practical Distillation: Abnormal Operations
A1011a	Practical Distillation: Behavior of Hydrocarbons
A1012a	Practical Distillation: Fractionating Equipment
A1013	Practical Distillation: Normal Operations
A1012b	Practical Distillation: Operating Procedures
A1011b	Practical Distillation: Principles and Practices
A1012c	Practical Distillation: Concepts and Quality
A1090	Process Control Tests
A1200	Process Operator Responsibilities
A1180	Process Plant Chemistry
A1190	Safe Laboratory Operations
A1133	Safe Tank Cleaning: Cleaning the Tank
A1132	Safe Tank Cleaning: Gas-Freeing
A1134	Safe Tank Cleaning: Hazardous Materials
A1131	Safe Tank Cleaning: Preparing for Cleaning
A1204	Small Threaded Pipe
A1191	Statistical Process Control
A1203	Tubing
A1206	Valve Maintenance
A1102	Wastewater Treatment: Biological Treatment Process
A1101	Wastewater Treatment: Preliminary Treatment
A1103	Wastewater Treatment: Process Control
A1104	Wastewater Treatment: Testing and Troubleshooting
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Exploration & Production Core	Competency
A1545a	Electrical Centrifugal Subsurface Pumps: Equipment
A1545b	Electrical Centrifugal Subsurface Pumps: Ammeter Recording and Charts
A1620	Electrical Fundamentals
A1413c	Flowing Wells: Chokes
A1411	Flowing Wells: Introduction to Pressure and Flow
A1414	Flowing Wells: Operating Flowing Wells
A1413b	Flowing Wells: Packers and Valves
A1413a	Flowing Wells: The Wellhead, Wellbore, and Christmas Tree
A1412	Flowing Wells: Pressure and Flow in Producing Wells
A1610a	Fundamentals of Fluids for Production Operations: Fluid Behavior
A1610b	Fundamentals of Fluids for Production Operations: Gases and Static Pressure
A1560b	Gas Lift: Equipment
A1560a	Gas Lift: Fundamentals
A1560c	Gas Lift: Operating Techniques
A1465	Gas Measurement: Electronic Flow Measurement
A1462a	Gas Measurement: Equipment and Calculations
A1461	Gas Measurement: Fundamentals
A1462c	Gas Measurement: Orifice Flow Calculations
A1462b	Gas Measurement: Orifice Meters
A1466	Gas Measurement: Witnessing
A1585	Glycol Dehydration
A1555a	Heater Treaters: Fundamentals
A1555b	Heater Treaters: Types and Operation
A1550a	Hydraulic Subsurface Pumping Systems: Downhole Pumps and Engines
A1550c	Hydraulic Subsurface Pumping Systems: Installation and Testing
A1550d	Hydraulic Subsurface Pumping Systems: Pump Performance
A1550b	Hydraulic Subsurface Pumping Systems: Surface and Tubing Equipment
A1660	Introduction to Service Rig Operations
A1535	Lease Automatic Custody Transfer (LACT)
A1570c	Lease Instrumentation: Control Equipment
A1570b	Lease Instrumentation: Final Control Devices
A1570a	Lease Instrumentation: Sensing and Measuring Equipment
A1630	Oil and Gas Production Overview
A1400b	Oil and Gas Reservoirs: Barriers and Traps
A1400a	Oil and Gas Reservoirs: Fundamentals
A1470	Oil and Gas Separators
A1580	Oil Field Corrosion
A1540c	Oil Field Electricity: Conservation and Classification
A1540b	Oil Field Electricity: Electrified Equipment
A1540a	Oil Field Electricity: Fundamentals
A1541	Oil Field Electricity: Offshore Oil Field Electricity
A1452	Oil Well Performance and Surveillance: Equipment
A1451a	Oil Well Performance and Surveillance: Fundamentals
A1451b	Oil Well Performance and Surveillance: Testing
A1681	Plate Tectonics
A1634	Process Component Safety Analysis and System Testing
A1600	Production Facility Gas Processing
A1631	Production Safety Equipment and Support Systems
A1633	Production Safety Systems Regulations and Device Identification
A1639	Reducing Marine Trash and Debris
A1635	Safety Device Operation
A1638	SEMS Standard and Requirements
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Exploration & Production Core Competency	
A1636	Testing and Setting Safety Devices
A1565	Vapor Recovery Systems
A1575c	Water Treatment and Disposal: Facilities and Testing
A1575a	Water Treatment and Disposal: Fundamentals
A1575b	Water Treatment and Disposal: Processes and Equipment
A1632	Well Control and Production Safety Regulations
A1421a	Well Pumping: Introduction to Sucker-Rod Systems
A1423b	Well Pumping: Operating Sucker-Rods
A1422	Well Pumping: Sucker-Rod Pump Performance
A1423a	Well Pumping: Sucker-Rod Surface Equipment
A1421b	Well Pumping: Sucker-Rod Systems
A1665	Wireline and Sonar Well Operations

EHS – US Mandates	
A5010	Access to Medical Records
A5089a	Accident Control Techniques: Introduction
A5089b	Accident Control Techniques: Safe Work Practices
A5071	American Chemistry Council: Responsible Care
A5019	Asbestos
A5036	Assessing Occupational Exposure
A5005	Benzene
A5070	Combustible Dust Hazards
A5003	Confined Space Entry
A5076	DOT Drug and Alcohol Testing
A5025	DOT Hazardous Materials Employee Safety
A5026	DOT Hazardous Materials General Awareness
A5059	DOT Hazardous Materials Transportation Security Awareness
A5065	Driving Safety
A5069	EHS Regulatory Overview
A5021	Electrical Safety for Qualified Employees
A5020	Electrical Safety for Unqualified Employees
A5017	Emergency Action Plans, Alarm Systems, and Fire Prevention Plans
A5094	Environmental Awareness
A5057	Excavation and Trenching
A5057a	Excavation and Trenching for Operations Personnel
A5048	Explosive and Flammable Chemicals
A5066	Export Compliance and Global Trade Guidelines
A5013	Eye and Face Protection
A5078	Eye Wash and Safety Showers
A5022	Fall Prevention
A5092	First Aid Procedures
A5023	Forklifts and Powered Industrial Trucks
A5096	Hand and Power Tool Safety
A5075	Hand Safety
A5006	Hazard Communication
A5035a	Hazards of Naturally Occurring Radioactive Materials (NORM)
A5008	Hazwoper: Awareness
A5009	Hazwoper: Operations
A5007	Hazwoper: Overview
A5002	Hearing Protection
A5055	Heat Stress Safety
A5032	Helicopter Safety
A5030	Hot Work
A5029	Hydrogen Sulfide (H2S)
A5038	Incident Reporting and Investigation
A5031b	Industrial Ergonomics
A5093	Industrial Hygiene
A5073	Introduction to Hazmat Transportation Regulations
A5050	Introduction to Process Safety Management (PSM)
A5011	Ionizing Radiation
A5045	Irritants, Corrosives, and Sensitizers
A5060	Jet Fuel Quality Control
A5015	Laboratory Safety

EHS – US Mandates	
A5068	Ladder Safety
A5068a	Ladder Safety for Construction
A5067	Line Breaking
A5012	Lockout/Tagout
A5079	Manual Handling and Lifting Techniques
A5035	Naturally Occurring Radioactive Materials (NORM)
A5049	Nitrogen Safe Use and Handling
A5040	Occupational Exposure to 1,3-Butadiene
A5024	Occupational Exposure to Bloodborne Pathogens
A5052	Occupational Exposure to Carcinogens
A5044	Occupational Exposure to Chlorine
A5072	Occupational Exposure to Formaldehyde
A5039	Occupational Exposure to Hexavalent Chromium
A5041	Occupational Exposure to Hydrochloric Acid
A5053	Occupational Exposure to Lead
A5037a	Occupational Exposure to Respirable Crystalline Silica
A5037	Occupational Exposure to Respirable Crystalline Silica - General Industry
A5043	Occupational Exposure to Sodium Hydroxide (Caustic Soda)
A5033	Occupational Exposure to Sulfur Dioxide
A5042	Occupational Exposure to Sulfuric Acid
A5031a	Office Ergonomics
A5091	Office Fire Safety
A5090	Office Safety
A5080	Offshore Water Safety
A5054	Oxygen-Fuel Gas Welding and Cutting
A5014	Personal Protective Equipment
A5004	Portable Fire Extinguishers
A5004a	Portable Fire Extinguishers: Non-Emergency Responder
A5074	Process Safety and Fatigue Management
A5074a	Process Safety and Fatigue Management for Supervisors
A50164	RCRA Emergency Response
A50161	RCRA Generators
A50162	RCRA Transporters
A50163	RCRA Treatment, Storage, and Disposal Facilities
A5001	Respiratory Protection
A5056	Rigging, Slings and Crane Lifts
A5058	Scaffolding
A5063	Security Training: All Personnel
A5061	Security Training: Facility Security Officer Overview
A5062	Security Training: Security Personnel
A5018	Specifications for Accident Prevention Signs and Tags
A5028	Spill Prevention, Control, and Countermeasures
A5027	Storage and Handling of Anhydrous Ammonia
A5046	Toxic Chemicals
A5034	Toxic Substances Control Act (TSCA)
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A5051	Vehicle-Mounted Elevated Work Platforms and Aerial Lifts
A5077	Walking/Working Surfaces
A5095	Warehouse Safety
A5058a	Working on Scaffolds

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A5064	Workplace Violence

EHS – UK/EU Mandates	
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UK-HSE-5019	Asbestos - UK
UK-HSE-5036	Assessing Occupational Exposure - UK
UK-HSE-5005	Benzene - UK
UK-HSE-5003	Confined Space Entry - UK
UK-HSE-5065	Driving Safety - UK
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UK-HSE-5057	Excavation and Trenching - UK
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UK-HSE-5092	First Aid Procedures - UK
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	PS-MNT-VSR-101	Vent System and Rundown System
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	PS-MSO-WSS-101	Water Softening Systems

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EI&A Mechanical Maintenance		
	PS-MNT-WBS-101	Weigh Bridges, Docks Levelers & Scales
	PS-MNT-WDV-101	Weighing Devices
	PS-MNT-WTE-101	Workshop Tools and Equipment

Gas Processing	
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A2504	Fractionation in Gas Processing
A2507	Gas Processing Hazards
A2502	Gas Processing Thermodynamics
A2512	H2S Scavenger
A2501	Hydrocarbon Phase Behavior and Vapor-Liquid Equilibrium
A2500	Introduction to Gas Processing for Operations
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PS-MSO-FSF-101	Flare System Fundamentals
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PS-MSO-FDF-201	Fractional Distillation Process Fundamentals
PS-MSO-HAC-101	Fundamentals of Hazardous Area Classifications
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PS-MSO-GDO-101	Glycol Dehydration Equipment and Operation
PS-MSO-GIS-201	Glycol Injection System Operation
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PS-MSO-CCO-101	Introduction to Computerized Control Systems
PS-MSO-GCH-102	Introduction to Gas Chromatography
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PS-MSO-ITI-101	ISO Truck Tank Construction and Inspection
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PS-MSO-MNF-101	Manifold Systems Overview
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PS-MSO-TSO-101	Tank Isolation
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PS-MSO-TSM-101	Testing Composition of Offloading Truck NGLs
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PS-MSO-CTS-101	Two Phase and Three Phase Separators
PS-MSO-UST-101	Underground Storage Tank Inspection and Monitoring
PS-MSO-WRT-101	Water Removal from a Storage Tank Bottom
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Process Safety Management	
PS-PSM-PSO-107	Process Safety in Operations: Audits and Key Performance Indicators
PS-PSM-PSO-106	Process Safety in Operations: Emergency Response and Incident Investigation
PS-PSM-PSO-102	Process Safety in Operations: Hazards
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PS-REF-CRU-104	Crude Distillation: Process Variables
PS-REF-CRU-106	Crude Distillation: Troubleshooting Trays and Towers
PS-REF-FCC-106	Fluid Catalytic Cracking Abnormal Operations
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PS-REF-GAS-101	Gasoline Blending Operations
PS-REF-SDA-101	Introduction to Solvent Deasphalting
PS-REF-OVR-104	Refinery Process Overview: Catalytic Reforming
PS-REF-OVR-103	Refinery Process Overview: Fluid Catalytic Cracking
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PS-REF-SDA-105	Solvent Deasphalting Analytical Methods and Sample Frequency
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PS-REF-SAP-103	Sulfuric Acid Plant: Auxiliary Equipment
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PS-REF-COK-104	SYDEC Delayed Coking Process Auxiliary Equipment
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A1701	Drilling Fundamentals: Part 1
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A1740	Introduction to Artificial Lift
A1730	Introduction to Hydraulic Fracturing
A1760	Offshore Systems
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