## Facilities Course Progression Map

<table>
<thead>
<tr>
<th>Basic</th>
<th>Foundation</th>
<th>Intermediate</th>
<th>Specialized</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Oil and Gas Production Facilities – PF2</td>
<td>Applied Water Technology in Oil and Gas Production – PF21</td>
<td>Gas Treating and Sulfur Recovery – G6</td>
<td>CO₂ Surface Facilities – PF81</td>
</tr>
<tr>
<td>LNG Short Course: Technology and the LNG Chain – G20</td>
<td>Gas Conditioning and Processing Principles – G3 Virtual/Blended Course</td>
<td>Practical Computer Simulation Applications in Gas Processing – G5</td>
<td>Relief and Flare Systems – PF44</td>
</tr>
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</table>
### Facilities Course Progression Map

#### Mechanical Engineering

<table>
<thead>
<tr>
<th>Non-Rotating</th>
<th>Rotating</th>
<th>Reliability</th>
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<tr>
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- **Compressor Systems - Mechanical Design and Specification** (ME46)
- **Piping Systems - Mechanical Design and Specification** (ME41)
- **Fundamentals of Pump and Compressor Systems** (ME44)
- **Mechanical Specification of Pressure Vessels and Heat Exchangers** (ME43)

#### Operations & Maintenance

<table>
<thead>
<tr>
<th>O&amp;M Management</th>
<th>Operator Training</th>
</tr>
</thead>
<tbody>
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- **Process Plant Reliability and Maintenance Strategies** (REL5)
- **Turnaround, Shutdown, and Outage Management** (TSOM p.4)

#### Project Mgmt.

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</table>

- **Advanced Project Management**
- **Advanced Project Management II** (FPM63)
- **Advanced Project Mgmt Workshop** (APMW)
- **Managing Brownfield Projects** (FPM42)
- **Project Management for Engineering and Construction** (FPM22)
- **Project Controls for Contractors and Owners** (PC21)
- **Petroleum Project Management: Principles and Practices** (PPM)
- **Cost/Price Analysis and Total Cost Concepts in Supply Management** (SC64)
- **Supplier Relationship Management** (SC63)
- **Strategic Procurement and Supply Management in the Oil and Gas Industry** (SC62)
- **Inside Procurement in Oil & Gas** (SC61)

#### Procurement/Supply Chain Management

<p>| | |</p>
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<tr>
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<tbody>
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</tbody>
</table>

- **Contracts and Tenders Fundamentals** (SC41)
- **Effective Materials Management** (SC42)
- **Managing Brownfield Projects** (FPM42)
- **Project Management for Engineering and Construction** (FPM22)
- **Project Controls for Contractors and Owners** (PC21)
- **Petroleum Project Management: Principles and Practices** (PPM)
- **Cost/Price Analysis and Total Cost Concepts in Supply Management** (SC64)
- **Supplier Relationship Management** (SC63)
- **Strategic Procurement and Supply Management in the Oil and Gas Industry** (SC62)
- **Inside Procurement in Oil & Gas** (SC61)

#### Additional courses available in:

- **Production & Completions**
- **Health, Safety, Environment**
- **Petroleum Business**
- **Professional Petroleum Development**
- **Multi-Discipline Training**
Oil and Gas Processing Facilities for Operations and Maintenance – OT1

BASIC 5-DAY

The public course content is governed by the common production / processing facilities in the regions where the course is being held. There are gas / LNG content focus, gas / expandable plant, or oil / water / gas focused courses. All locations include an overview of gas processing, industry terminology, process drawings, units of measurement, hydrocarbons physical properties, phase behavior fundamentals, plus the localized topics below. Course content is customizable to client needs at no additional cost.

Marcellus / Bakken Gas Processing Modules
Water / hydrocarbon behavior
Basic principles of fluid flow
Amine gas sweetening
Mole sieve dehydation
Mechanical Refrigeration
GSP (T/E) Process Operations
NGL stabilization and fractionation
Process troubleshooting

Permain / Eagle Ford / North Sea Oil and Gas Production and Processing Modules
Basic principles of fluid flow
Gas lift systems
Production separators
Crude oil dehydation
Crude oil desalting
Crude oil, condensate, and NGL stabilization
Crude oil storage and vapor recovery systems
Crude oil pipeline systems
Produced water treating
Process troubleshooting

Australia Gas Processing Modules
Water / hydrocarbon behavior
Basic principles of fluid flow
Amine gas sweetening (not in Brisbane)
Mole sieve dehydation
Mechanical refrigeration
Cascade refrigeration
Mixed refrigerants
NGL stabilization and fractionation
LNG facilities
Process troubleshooting

DESIGNED FOR
Facility operators who require a working knowledge of the various processes used in production fluid conditioning and processing, including the common operational difficulties that may arise and operational tactics used to resolve them. Also suitable for maintenance technicians, supervisors, and managers, as well as other non-engineering personnel who would benefit in an understanding of gas processing techniques that can be applied in their daily work activities.

YOU WILL LEARN
• The effects of produced fluid compositions (oil/gas/water) on facility operation
• About separation, conditioning, and processing operations to meet product specifications on oil, gas, and produced water streams for disposal/re-use
• How to operate facilities to minimize operating costs
• How to apply course material to troubleshooting equipment and unit operations

See website for dates and locations.

Amine Sweetening and Gas Dehydration for Operations and Maintenance – OT41

FOUNDATION 4-DAY

This course will provide the basic knowledge required for understanding operating issues in natural gas amine sweetening and dehydation units. Course content is customizable to client needs at no additional cost.

DESIGNED FOR
Plant and facility operations and maintenance technicians, supervisors, and managers.

YOU WILL LEARN
• Basic principles of gas processing
• The physical properties of hydrocarbons
• Practical application of the principles of hydrocarbon phase behavior
• To determine the water content of produced natural gas and the effects of acid gases
• The problems and dangers of hydrate formation
• Effective methods of hydrate inhibition
• Two types of dehydation processes: absorption and adsorption
• Principles and operational elements of TEG gas dehydation
• Principles and operational elements of mole sieve gas dehydation
• Principles and operational elements of amine gas sweetening

COURSE CONTENT
Physical properties of hydrocarbons • Phase behavior fundamentals • Water/hydrocarbon behavior • TEG equipment • TEG system operating procedures and problems • Care of the TEG system • Mole sieve gas dehydation • Operation and adsorbent life • Mole sieve operating problems and troubleshooting • Amine gas sweetening • Amine system operating procedures and problems • Makeup water • Anti-foam chemicals • Managing system corrosion

See website for dates and locations.

NGL Extraction, Stabilization and Fractionation for Operations and Maintenance – OT42

FOUNDATION 4-DAY

This course is designed to deliver the basic knowledge required for understanding operating issues in NGL (Natural Gas Liquids) extraction and stabilization/fractionation. Course content is customizable to client needs at no additional cost.

DESIGNED FOR
Plant and facility operations and maintenance technicians, supervisors, and managers.

YOU WILL LEARN
• About the various unit operations required in gas processing and how they impact one another
• Conditions that favor hydrate formation, and methods to mitigate hydrates (hydrate inhibition)
• Principles and operations of gas compressors (centrifugal/screws/reciprocating)
• Principles, operations, and troubleshooting mechanical refrigeration systems (propane economized systems)
• Molecular sieve dehydation operations and issues
• Operating principles, typical performance, and issues in NGL extraction processes (refrigeration/JT valve/turbexpander)
• NGL stabilization and fractionation principles, operations, controls, and common operating problems

COURSE CONTENT
Overview of gas processing • Water/hydration behavior (hydrates and hydrate inhibition) • Compression • Mechanical refrigeration • Molecular sieve dehydation • NGL extraction (refrigeration with MEG inhibition, valve expansion, turbexpander) • Fractionation fundamentals • Physical properties of hydrocarbons • Phase behavior of hydrocarbons • Troubleshooting

See website for dates and locations.

LNG Facilities for Operations and Maintenance – OT43

FOUNDATION 5-DAY

This 5-day, LNG facilities course provides an overview of field operations, and an in-depth review of the in-plant equipment and processes. The course includes the two most common types of LNG liquidation processes, the AP-C3MR™ and ConocoPhillips Optimized Cascades® Process. Class exercises/ problems focus on the application of theory to operational trends, so operators can understand their processes and become more proficient at identifying issues and troubleshooting problems before production suffers. Course content is customizable to client needs at no additional cost.

DESIGNED FOR
LNG facility operators who require a working knowledge of the various processes used in LNG facilities, including the common operational difficulties that may arise and operational tactics used to resolve them. Also suitable for maintenance technicians, supervisors, and managers, as well as other non-engineering personnel who would benefit in an understanding of gas processing techniques that can be applied in their daily work activities.

YOU WILL LEARN
• Overview of oil and gas processing, including typical field operations
• The required feed quality specifications for LNG facilities, including issues with common contaminants
• Separation equipment with a focus on critical separation equipment in LNG facilities
• Operational aspects of acid gas removal units (AGRU) for LNG facilities
• Gas dehydration processes for LNG (including pre-cooling and molecular sieve)
• Mercury removal processes for LNG, and location/performance in the facility
• Centrifugal compressor operations and issues
• Refrigeration system operational principles (propane, cascade and mixed refrigerant)
• NGL stabilization and fractionation processes (regional)
• LNG C3MR Cascade® Process Overview
• LNG AP-C3MR™ Process Overview
• LNG storage operations and considerations
• LNG ship loading and boil-off gas management issues and considerations
• Application of hydrogen gas physical properties and phase behavior to understand the process operational issues within the overall facility
• Gas turbine operations and issues
• Hydrocarbon physical properties and phase behavior as the natural gas flows through the plant

COURSE CONTENT
Overview of oil and gas processing • Separation equipment • LNG feed quality requirements • LNG pre-treatment systems (AGRU) (molecular sieve/Hg removal) • Fundamentals of centrifugal compression • Refrigeration principles (propane, cascade and mixed refrigerant) • NGL stabilization and fractionation (regional) • LNG C3MR Cascade® Process Overview • LNG AP-C3MR™ Process Overview • LNG storage operations and considerations • LNG shiploading operations and considerations • Boil-off gas management methods • and more...

See website for dates and locations.

2018-19 Schedule and Tuition (USD)

HOUSTON, US
12-16 NOV 2018
S3940

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Crude Oil Pipeline Operations – OT50

FOUNDATION 5-DAY

This course utilizes case studies and industry best practices for operating and maintaining onshore crude oil and liquid pipeline systems that maximize life cycle reliability, employee, public, and environmental safety, and operational cost effectiveness. It focuses on open discussions and troubleshooting techniques that may be applied to crude, HVL (High Volatility Liquids) and refined product pipelines and their associated infrastructure. The course aims to improve the operation profitability and communication with management and engineering staff. Course content is customizable to client needs at no additional cost.

DESIGNED FOR

Pipeline operations personnel who require a working knowledge of onshore liquid pipeline and terminal systems, including the common operational difficulties that may arise and operational tactics used to resolve them. Also suitable for maintenance personnel, metering technicians, lead supervisors, area managers, and engineering staff that need a working knowledge of field pipeline operations.

YOU WILL LEARN HOW TO

• Apply regulatory codes, standards, and industry guidelines (PSHMA 195, ASME B31.3, API-1113 and others) that control and guide the operation and maintenance of pipeline facilities
• Explain fluid properties and behavior of crude oils, wax behavior, temperature relationships and use of DRA in crude oil pipelines
• Explain pipeline hydraulics, pipeline pressure gradients and predict capacity on the system
• Identify pipeline MOP, surge and causes of overpressures and mitigation measures
• Explain pipeline facilities: pump system, stations, filtration, metering and LACT units, sampling and testing, pigging equipment, tank terminals and truck/rail loading facilities
• Explain liquid pipeline operations: commissioning and purging/filling, startup, stopping, pigging and pig receiver operations, measurement and sampling activities
• Identify principle causes of loss of containment and mitigating measures; corrosion, environmental cracking, overpressure, 3rd party damage and error
• Review regulatory compliance requirements for CFR 49, Part 195, to be better prepared in the case of compliance audits
• Explore emergency response measures to spills and loss of containment

COURSE CONTENT

Crude oil transportation systems • Industry codes and regulations, scope and applicability • Crude oils, waxes and DRA, fluid properties and behavior • Hydraulic analysis of pipelines and gradients • Pipeline pumps – components, operation, seal systems and seal leak detection • Pipeline surge and overpressure protection systems • Pipeline facilities – filtration, pressure controls, pigging equipment • Terminal facilities – tanks, truck/rail loading, metering, sampling and proving • Pigging goals, processes and activities • Pipeline repairs and maintenance • Corrosion overview and prevention • Leak detection methods • CFR 49, Part 195 review of documentation requirements and terminology

Turnaround, Shutdown, and Outage Management – TSOM

INTERMEDIATE 3-DAY

Scheduled turnarounds are difficult to manage. Managing a surprise shutdown or outage is like firefighting. Firefighters succeed because they know what strategies work and are highly trained to handle complex, risky situations. Uncertainty and complexity abound when a plant is down. Extra work can appear when equipment is opened and inspected. Integrating project work increases the challenge. Experienced instructors show you how to control scope uncertainty, tackle the complexity of integrating project work, and get the facility restarted. Upon completion you will know how to deploy scarce resources (time, people and materials) to complete work on time and within budget; utilize best practices in TS0 planning, execution and closeout; and manage engineering, maintenance, operations and project interfaces. A blend of instruction, guided discussion, and hands-on exercises using real world examples makes the sessions thought provoking. The exercises will include both single and group activities. Course content is customizable to client needs at no additional cost.

DESIGNED FOR

Managers, supervisors, engineers, schedulers in maintenance, operations, reliability, HSE, procurement and projects should attend. This course also helps business, commercial, finance and other non-technical personnel who want to know more about turnaround, shutdown and outage best practices.

YOU WILL LEARN HOW TO

• Establish targets to ensure support from all facility stakeholders
• Develop a robust resource plan and get the resources you need
• Integrate scopes for both maintenance and projects
• Establish turnaround scope selection criteria early
• Select a computerized work system
• Address key outage constraints and operations interfaces
• Develop a robust contracting plan
• Prepare an execution plan
• Measure and control shutdown progress

COURSE CONTENT

Six-phases of turnaround, outage and shutdown management • Issues and challenges • Quality control • Health, safety and environmental planning • Computerized systems benefits and choices • Integrating the plan • Managing stakeholders and resources • Procurement and contracting • Tracking progress and controlling change

Applied Maintenance Management – OM21

BASIC 5-DAY

No matter the price of oil, safe, efficient operations require well managed, integrated asset management. Effective, well organized maintenance management is the key. In this course, participants will receive a sound, integrated, basic knowledge of the maintenance function and how to progress towards world-class performance. Individual action plans will carry course learning into the work environment. A pre and post seminar self-assessment will be given to indicate delegates' competency improvements. The assessment is taken from the PetroSkills industry standard competency map for Maintenance Management. Course content is customizable to client needs at no additional cost.

DESIGNED FOR

Maintenance supervisors, team leaders, or managers needing to improve their maintenance programs. This course is a broad survey of essential aspects of maintaining a safe, efficient, and reliable facility asset.

YOU WILL LEARN

• World class maintenance standards and how to apply them
• Key performance indicators for your dashboard
• Essential elements of work planning and scheduling
• Optimization of preventive and predictive maintenance
• To focus your resources on critical equipment
• How to work with contractors more effectively
• Development of organizational competence

COURSE CONTENT

World class standards • Maintenance strategies • Planning and scheduling • Optimizing preventive and predictive maintenance • Identifying critical equipment • Developing organizational competence • Presenting your action plan

Maintenance Planning and Work Control – OM41

FOUNDATION 5-DAY

No matter what the price of oil is, safe facilities operations require effective maintenance work control. ISO 55000 (PAS 55) is the asset management standard everyone is moving towards. This course is designed to build competency in Work Control as a primary skill set required to achieve these new standards. It will focus on the six phases of work management: work identification, planning, prioritization, scheduling, execution, and history capture. These essential skills are the key components of integrity management, safety, efficient resource utilization, and reliable operation: A pre and post self-assessment will be used to measure competency improvement. In order to improve facility asset management, each participant will develop an action plan to help their organizations in the long-term effort to become more efficient and safe. Course content is customizable to client needs at no additional cost.

DESIGNED FOR

Maintenance managers, superintendents, supervisors, team leaders, and planners engaged in work management, planning, and scheduling.

YOU WILL LEARN

• To develop world class planning and work control
• To employ business process analysis techniques in work control
• How to use a gap analysis on your work management system
• Step-by-step work control from identification through using work history
• Optimization of preventive and condition-monitoring activities
• Techniques: critical equipment analysis, critical spares control, and emergency response work

COURSE CONTENT

Work identification • Planning prioritization • Scheduling execution • History records • Optimizing preventive maintenance • Predictive maintenance planning • Critical equipment focus • Emergency response

2018-19 Schedule and Tuition (USD)

<table>
<thead>
<tr>
<th>Course</th>
<th>Dates</th>
<th>Location</th>
<th>Fee (USD)</th>
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<td>Turnaround, Shutdown, and Outage Management</td>
<td>14-18 Oct 2018</td>
<td>Dubai, UAE</td>
<td>$4570+VAT</td>
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<td>13-17 Oct 2019</td>
<td>Dubai, UAE</td>
<td>$4525+VAT</td>
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<td>10-14 Sep 2018</td>
<td>Houston, US</td>
<td>$3480</td>
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<td>19-23 Aug 2019</td>
<td>Orlando, FL</td>
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<td></td>
<td>9-13 Dec 2019</td>
<td>Houston, US</td>
<td>$3865</td>
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2018-19 Schedule and Tuition (USD)

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<th>Dates</th>
<th>Location</th>
<th>Fee (USD)</th>
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</thead>
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<tr>
<td>Foundation 5-Day Maintenance Planning and Work Control</td>
<td>21-25 Oct 2018</td>
<td>Dubai, UAE</td>
<td>$4970+VAT</td>
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<tr>
<td></td>
<td>26-29 Oct 2018</td>
<td>Houston, US</td>
<td>$5025+VAT</td>
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<td></td>
<td>1-5 Apr 2019</td>
<td>Houston, US</td>
<td>$4015</td>
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</tbody>
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### Fundamentals of Process Safety – PS2

**FOUNDATION 5-DAY**

The course will cover the fundamentals of Process Safety for all staff levels of processing facilities in the upstream and downstream oil, gas, and petro chemical industry. To identify how different disciplines and roles can have an impact on Process Safety performance, there is a rolling case study (Project COLEX) throughout the course that involves the installation of a separator vessel, and the Process Safety considerations and implications are explored and discussed at the various stages, from design to full operation.

**DESIGNED FOR**
The course will benefit all staff associated with the operation, maintenance, and governance in production and processing facilities and is relevant to roles, including senior management, project and engineering support teams, HSE support, supervisors, operators and maintenance technicians. It provides an understanding of the design basis and essentials for safe operations, without addressing the more detailed calculation aspects covered in Process Safety Engineering P54.

**YOU WILL LEARN HOW TO**
- Identify the systems and processes required to create process safety in a high hazard environment
- Identify and choose appropriate techniques and tools to qualitatively assess process hazards
- Determine appropriate risk reduction strategies and identify effective risk reduction measures to prevent, control, and mitigate process safety risk
- Recognize and develop systems to manage Process Safety in operations through operating procedures and operating limits, ensuring plant integrity through maintenance and inspection
- Use a management of change process to minimize risk of change
- Identify and monitor key performance measures and verifications to maintain and improve safety performance

**COURSE CONTENT**
Business context for Process Safety • Risk assessment (hazard identification, hazard scenarios, consequence and likelihood analysis, and risk analysis and tools and techniques) • Risk reduction measures (barriers) (types and hierarchy of risk reduction measures (barriers)) • Management of process safety in operations (operating procedures, design and operating limits, human factors, inspection and maintenance, and emergency response) • Management of change • Learning from previous incidents and near misses • Self-verification and measurement • Process safety key performance indicators • Management review and auditing • Process safety leadership (governance and culture)

### Risk Based Process Safety Management – HS45

**FOUNDATION 5-DAY**

This course introduces process safety management in the oil and gas industry, the elements and benefits of process safety management systems, and tools for implementing and managing a system. In this course, the participant will learn to use tools and techniques for managing process safety. The Center for Chemical Process Safety’s (CCPS) book titled “Guidelines for Risk Based Process Safety” or “RBP Guidelines” will be the text for this course. Participant centered exercises and selected case studies will be used to build on the concepts that CCPS advocates for risk-based process safety.

Throughout the course, participants will be challenged to think how their process safety management system can be enhanced and modified to meet the concepts of risk-based decision making. An individual action plan will be developed to apply the information from the course to the workplace.

**DESIGNED FOR**
HSE professionals, operations and maintenance technicians, engineers, supervisors and project managers requiring a basic foundation in developing and managing process safety. The more technical aspects of process safety engineering are covered in P54, Process Safety Engineering.

**YOU WILL LEARN HOW TO**
- Identify processes applicable to Process Safety Management (PSM) and describe relevant terms used
- Identify which standards are to be applied for managing process hazards
- Apply programs and tools for managing a PSM system
- Choose appropriate decision making methods and tools to identify process hazards
- Describe and use techniques available for control of hazards associated with process designs
- Describe the criteria and methods of selecting equipment and safe guarding controls
- Research and apply the performance parameters for the safety systems in operations
- Explain the role of all disciplines and their contribution to the management of potential HSE hazards

**COURSE CONTENT**
Process safety culture and competency • Compliance with standards • Understand hazards and risk • Operating procedures and safe work practices • Asset integrity and reliability • Management of change • Conduct of operations • Incident investigation (associated with plant failures) • Measurement and metrics • Management review and continuous improvement

### Process Safety Engineering – PSE

**FOUNDATION 5-DAY**

This is a competency driven, fundamental course covering the broad scope of process safety engineering. Other topics relevant to process safety are introduced, showing how process safety engineering fits into the broader context of risk management and process safety management, but the emphasis is on the technical content. While many of the examples are drawn from upstream and midstream oil and gas facilities, the principles are applicable across the hydrocarbon processing industries. The course is designed to accelerate the participants process safety learning curve. Serious process safety incidents occur somewhere in the industry nearly every week, and few if any are new; essentially the same ways of going wrong are found repeatedly, in different operating contexts. One of the main objectives of P54-4 is to develop knowledge of the more common ways of going wrong, and one of the ways of doing that is discussion of major incidents, including some of those that have affected our regulatory environment. P54-4 graduates should be able to see their facilities and projects with a new perspective, a new sense of not only how things work, but also of how things fail.

**DESIGNED FOR**
Anyone who needs to work with process safety engineers; this would include facilities engineers, operations and maintenance supervisors, project engineers and managers, entry level process safety engineers, experienced professionals new to oil and gas, and anyone who needs a general understanding of the breadth of the process safety engineering discipline. Technical staff from insurance companies and regulatory agencies have found the course useful. Those requiring a less technical course may be interested in P54-2. Fundamentals of Process Safety, risk-based process safety management is the subject of HS45.

**YOU WILL LEARN**
- Types of equipment and process systems that have historically been problematic in the Upstream and Midstream oil and gas industry
- Basics of risk analysis
- Thinking in terms of Inherently Safer Design
- Most common process hazard analysis methods and where they are used
- Layers of Protection concept – what the different layers and how they are applied
- Detection and mitigation methods for different types of hazards

**COURSE CONTENT**
Historical incidents and problem areas • Risk analysis basics • Process hazards analysis techniques - overview • Layers of protection • Inherently safer design • Hazards associated with process fluids • Leakage and dispersion of hydrocarbons • Combustion behavior of hydrocarbons • Sources of ignition • Hazards associated with specific plant systems • Plant layout and equipment spacing • Pressure relief and disposal systems • and more...

**2018-19 Schedule and Tuition (USD)**

<table>
<thead>
<tr>
<th>Location</th>
<th>Dates</th>
<th>Tuition</th>
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<td>Denver, US</td>
<td>22-26 July 2019</td>
<td>$4320</td>
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<tr>
<td>Dubai, UAE</td>
<td>24-28 Mar 2019</td>
<td>$5445+VAT</td>
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<td>Houston, US</td>
<td>25 Feb-2 Mar 2018</td>
<td>$4240</td>
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<tr>
<td>London, UK</td>
<td>26-30 Nov 2018</td>
<td>$4880+VAT</td>
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<tr>
<td>London, UK</td>
<td>26-30 Nov 2019</td>
<td>$5035+VAT</td>
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<tr>
<td>Kuala Lumpur, MYS</td>
<td>25-29 Mar 2019</td>
<td>$4315</td>
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<tr>
<td>London, UK</td>
<td>14-18 Oct 2019</td>
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<tr>
<td>Perth, AUS</td>
<td>9-13 Oct 2019</td>
<td>$4315</td>
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- Geology
- Geophysics
- Petrophysics
- Reservoir Engineering
- Well Construction/Drilling
- Production and Completions Engineering
- Unconventional Resources
- Integrated - Heavy Oil
- Petroleum Data Management

Facilities
- Gas Processing
- Process Facilities
- Offshore & Subsea
- Pipeline Engineering
- Instrumentation, Controls & Electrical
- Mechanical Engineering
- Reliability Engineering
- Procurement/Supply Chain Management
- Refining

Health, Safety, Environment

Petroleum Business and Professional Development
- Petroleum Professional Development
- Petroleum Business
- Project Management

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- Foundations of Petrophysics
- Gas Conditioning and Processing
- NODAL Analysis Workshop
- Process Safety Engineering
- Production Operations 1
- Production Technology for Other Disciplines
- Scale Identification, Remediation and Prevention Workshop

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