



Well Site Supervisor Development Program

COURSE

About the Course

This program is designed to develop your employees into the functional role of a Well Site Supervisor. By combining self-paced online activities with live virtual instruction and practical workshop application, this program equips your employees to be revenue generating team leaders at the well site. Using PetroSkills' PetroAcademy application and/or delivered real-time virtual sessions via WebEx, this program gives you the confidence that your employees are being developed using proven industry-validated competencies for this critical role.

Target Audience

- Field supervisors and junior field supervisors who are being developed to be well site supervisors
- Entry-level well site field personnel
- Experienced personnel who are cross-training to move into a supervisory role leading operations at the well site

You Will Learn

- Well Construction Foundations
- Descriptive Formation Fundamentals
- Onsite Fluids Management
- Casing and Cementing Operations
- Directional /Horizontal Drilling Operations
- Drilling Optimization Operations
- Initial Completions and Well Testing Operations
- Interventions Operations
- Managing Wellsite Operations
- Crew Resource Management
- The Reduction of Unplanned Events Operations
- Basic Petroleum Economics
- Project Management for Upstream Field Development
- Comprehensive Review, Capstone Exercise & Testing

Course Content

UNIT 1: Well Construction Foundations	Duration (hours)	Delivery Format
E&P Industry and Asset Life Cycle	4.0	Online Activity
Petroleum Geology	2.5	Online Activity
Hydrocarbon Reservoirs	2.0	Online Activity
Rock and Fluid Properties	3.5	Online Activity
Track One Overview-Detailed Participant Intro	4.0	Instructor-led (Virtual or F2F)
Surface/Subsurface Exploration	3.0	Online Activity
Drilling Operations and Well Completions	3.0	Online Activity
Defining Well Objectives	1.0	Online Activity
Production Principles	4.5	Online Activity
Office Hours - Q&A	2.0	Instructor-led (Virtual or F2F)
Drilling Rig Crews	0.5	Online Activity
Prepare to Spud - Operational Readiness	0.5	Online Activity
Back to Work Plan Discussion	1.0	Instructor-led (Virtual or F2F)
Unit 1 Recap	2.0	Instructor-led (Virtual or F2F)
Post-Assessment Unit 1	2.0	Online Activity
Debrief with participant managers	.75	Instructor-led (Virtual)

UNIT 2: Descriptive Formation Fundamentals	Duration (hours)	Delivery Format
Introduction and Overview of Petrophysics	5.0	Online Activity
Mud Logging, Coring, and Cased Hole Operations	4.5	Online Activity
Porosity Logging (Density, Neutron, and Sonic)	5.5	Online Activity
Office Hours - Q&A	2.0	Instructor-led (Virtual or F2F)
Gamma Ray and Spontaneous Potential Logging	2.5	Online Activity
Resistivity Logging Tools and Interpretation	3.5	Online Activity
Special Petrophysical Tools: NMR and Image Logs	2.0	Online Activity
Office Hours - Q&A	2.0	Instructor-led (Virtual or F2F)
Back to Work Plan Discussion	1.0	Instructor-led (Virtual or F2F)

Unit 2 Recap	2.0	Instructor-led (Virtual or F2F)
Post-Assessment Unit 2	2.0	Online Activity

UNIT 3: Onsite Fluids Management	Duration (hours)	Delivery Format
Drilling Fluid Objectives and Functions	0.5	Online Activity
Drilling Fluid Types, Additives and Properties	1.0	Online Activity
Volumetric Accountability with Drilling Fluids	1.0	Online Activity
Fluid Chemical Properties and Measurements	2.5	Instructor-led (Virtual or F2F)
WBM Build Scenarios (Calculations) w Exercises	2.0	Instructor-led (Virtual or F2F)
Fluids Processing / Solids Control	0.5	Instructor-led (Virtual or F2F)
Solids Analysis of a Drilling Fluid (Tree)	0.5	Instructor-led (Virtual or F2F)
Shaker Screen Nomenclature and Labeling	0.5	Instructor-led (Virtual or F2F)
WBM Contaminations	1.5	Instructor-led (Virtual or F2F)
Electrical Stability Unit	.25	Online Activity
Non-Aqueous Fluids	2.0	Instructor-led (Virtual or F2F)
Drilling Fluid Reports	1.5	Instructor-led (Virtual or F2F)
Waste Management	2.0	Instructor-led (Virtual or F2F)
Lost Circulation	2.0	Instructor-led (Virtual or F2F)
Drilling Fluid Impacts on the Technical Limit	1.5	Instructor-led (Virtual or F2F)
Back to Work Plan Discussion	2.0	Instructor-led (Virtual or F2F)
Unit 3 Recap	4.0	Instructor-led (Virtual or F2F)
Post-Assessment Unit 3	2.0	Online Activity

UNIT 4: Casing and Cementing Operations	Duration (hours)	Delivery Format
Characterizing the Drilling Environment	3.75	Online Activity
Primary and Remedial Cementing	5.0	Online Activity
Oilfield Casing	2.25	Online Activity
Casing Running Operations	3.75	Online Activity
Wellheads and Christmas Trees	0.5	Online Activity
All About Casing	3.0	Instructor-led (Virtual or F2F)
Wellhead Equipment, Casing Connections and Introduction to Primary Cementing	3.0	Instructor-led (Virtual or F2F)
Cement Calculations and Channeling	3.0	Instructor-led (Virtual or F2F)
Cement Casing Attachments	3.0	Instructor-led (Virtual or F2F)
Cement Considerations and Design	2.0	Instructor-led (Virtual or F2F)
Wellheads, Unit 4 Recap and Back-to-Work Plan Discussion	2.0	Instructor-led (Virtual or F2F)
Post-Assessment Unit 4	2.0	Online Activity

UNIT 5: Directional/Horizontal Drilling Operations	Duration (hours)	Delivery Format
Directional Drilling and Trajectory Design	2.5	Online Activity
Introduction, Planning	4.0	Instructor-led (Virtual or F2F)
Geosteering, Survey Instruments	4.0	Instructor-led (Virtual or F2F)
Types of Curves, Hole Cleaning	4.0	Instructor-led (Virtual or F2F)
Torque and Drag, Dogleg Severity, Methods of Deflection	4.0	Instructor-led (Virtual or F2F)
Unit 5 Recap	2.0	Instructor-led (Virtual or F2F)
Back-to-Work Plan Discussion	2.0	Instructor-led (Virtual or F2F)

Post-Assessment Unit 5	2.0	Online Activity
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UNIT 6: Drilling Optimization Operations	Duration (hours)	Delivery Format
Bits and Hydraulics	3.5	Online Activity
Drill String and BHA	3.0	Online Activity
Wellbore Drilling Excellence	4.0	Instructor-led (Virtual or F2F)
Wellbore Limiters Case Studies	4.0	Instructor-led (Virtual or F2F)
Bits and BHA	4.0	Instructor-led (Virtual or F2F)
Introduction to Drillstring Design for Field Use	4.0	Instructor-led (Virtual or F2F)
Pressure Management, Hydraulics, Hole Cleaning, MSE, Torque and Drag	4.0	Instructor-led (Virtual or F2F)
Back-to-Work Plan Discussion	2.0	Instructor-led (Virtual or F2F)
Unit 6 Recap: Assuring Wellbore Drilling Optimization (Loss Avoidance) and Sustainable Learning	2.0	Instructor-led (Virtual or F2F)
Post-Assessment Unit 6	2.0	Online Activity

UNIT 7: Initial Completions and Well Testing	Duration (hours)	Delivery Format
Design Process for Completions and Workovers	3.5	Online Activity
Onshore Conventional Completions	4.0	Online Activity
Onshore Unconventional Completions	3.5	Online Activity
Office Hours - Q&A	1.0	Instructor-led (Virtual or F2F)
Perforating	3.5	Online Activity
Formation Damage and Matrix Acidizing	3.0	Online Activity
Office Hours - Q&A	2.0	Instructor-led (Virtual or F2F)
Sand Control	2.5	Online Activity
Hydraulic Fracturing	4.0	Online Activity

Office Hours - Q&A	2.0	Instructor-led (Virtual or F2F)
Well Testing	3.0	Instructor-led (Virtual or F2F)
Back to Work Plan Discussion	2.0	Instructor-led (Virtual or F2F)
Unit 7 Recap	2.0	Instructor-led (Virtual or F2F)
Post-Assessment Unit 7	2.0	Online Activity

UNIT 8: Interventions Operations	Duration (hours)	Delivery Format
Well Intervention	3.0	Online Activity
Flow Assurance and Production Chemistry	5.0	Online Activity
Office Hours - Q&A	2.0	Instructor-led (Virtual or F2F)
Production Logging	3.0	Online Activity
Office Hours - Q&A	1.0	Instructor-led (Virtual or F2F)
Remedial Cementing Troubleshooting Examples	3.0	Instructor-led (Virtual or F2F)
Casing Side Tracks & Abandonment	4.0	Instructor-led (Virtual or F2F)
Back to Work Plan Discussion	2.0	Instructor-led (Virtual or F2F)
Unit 8 Recap	2.0	Instructor-led (Virtual or F2F)
Post-Assessment Unit 8	2.0	Online Activity

UNIT 9: Managing Wellsite Operations	Duration (hours)	Delivery Format
Well Construction Supply Chain Management	2.5	Online Activity
Well Site Management Part 1 - Logistics, Communication and Safety	3.0	Online Activity
Well Site Management Part 2 - Planning, Operations and Continuous Improvement	3.5	Online Activity

Office Hours - Q&A	2.0	Instructor-led (Virtual or F2F)
Competency Development, Interpersonal Communications	2.0	Instructor-led (Virtual or F2F)
Time Management	4.0	Instructor-led (Virtual or F2F)
Problem Solving Facilitation	4.0	Instructor-led (Virtual or F2F)
Process Improvement	4.0	Instructor-led (Virtual or F2F)
Back to Work Plan Discussion	2.0	Instructor-led (Virtual or F2F)
Unit 9 Recap	2.0	Instructor-led (Virtual or F2F)
Post-Assessment Unit 9	2.0	Online Activity

UNIT 10: Crew Resource Management	Duration (hours)	Delivery Format
Factors that Effect Human Performance, Crew Resource Management	3.0	Instructor-led (Virtual or F2F)
Situation Awareness and Decision Making	3.0	Instructor-led (Virtual or F2F)
Effective Communications and Teamwork	3.0	Instructor-led (Virtual or F2F)
Factors that Impact Human Performance	3.0	Instructor-led (Virtual or F2F)
Leadership	3.0	Instructor-led (Virtual or F2F)
Observation and Intervention	3.0	Instructor-led (Virtual or F2F)
Back to Work Plan Discussion	2.0	Instructor-led (Virtual or F2F)
Unit 10 Recap	2.0	Instructor-led (Virtual or F2F)
Post-Assessment Unit 10	2.0	Online Activity

UNIT 11: The Reduction of Unplanned Events	Duration (hours)	Delivery Format
Well Performance Management	2.5	Online Activity
Stuck Pipe Prevention	5.0	Online Activity
Office Hours - Q&A	2.0	Instructor-led (Virtual or F2F)
Selected Readings - TRUE book	4.0	Online Activity
Reduction of Unscheduled Events, Such as Stuck Pipe, Lost Circulation	4.0	Instructor-led (Virtual or F2F)
Rig Repair, Downhole Equipment Failure, Drill String Failure, Drilling Jars and Investigative Reporting	4.0	Instructor-led (Virtual or F2F)
Back to Work Plan Discussion	2.0	Instructor-led (Virtual or F2F)
Unit 11 Recap	2.0	Instructor-led (Virtual or F2F)
Post-Assessment Unit 11	2.0	Online Activity

UNIT 12: Basic Petroleum Economics	Duration (hours)	Delivery Format
Production Forecasting	2.5	Online Activity
Oil and Gas Pricing	2.5	Online Activity
Office Hours - Q&A	1.0	Instructor-led (Virtual or F2F)
Cash Flow	2.5	Online Activity
Economic Decision Tools	3.0	Online Activity
Office Hours - Q&A	1.0	Instructor-led (Virtual or F2F)
Risk and Uncertainty	2.5	Online Activity
Financing and Ownership	2.0	Online Activity
Office Hours - Q&A	1.0	Instructor-led (Virtual or F2F)
Petroleum Industry Accounting	2.5	Online Activity
Budgeting	2.0	Online Activity
Office Hours - Q&A	1.0	Instructor-led (Virtual or F2F)

Back to Work Plan Discussion	2.0	Instructor-led (Virtual or F2F)
Unit 12 Recap	2.0	Instructor-led (Virtual or F2F)
Post-Assessment Unit 12	2.0	Online Activity

UNIT 13: Project Management for Upstream Field Development	Duration (hours)	Delivery Format
Onshore Field Development Programs and Projects	3.0	Online Activity
Project Governance	3.0	Online Activity
Office Hours - Q&A	1.0	Instructor-led (Virtual or F2F)
Project Resources and Organization	2.5	Online Activity
Scope Delivery	2.5	Online Activity
Office Hours - Q&A	1.0	Instructor-led (Virtual or F2F)
Design Engineering Management	3.0	Online Activity
Acquiring Goods and Services	2.5	Online Activity
Office Hours - Q&A	1.0	Instructor-led (Virtual or F2F)
Construction Management	2.5	Online Activity
Risk Management	2.5	Online Activity
Office Hours - Q&A	1.0	Instructor-led (Virtual or F2F)
Cost Estimating for Facility Projects	2.5	Online Activity
Scheduling	2.5	Online Activity
Office Hours - Q&A	1.0	Instructor-led (Virtual or F2F)
Progress Measurement	2.0	Online Activity
Project Issues and Challenges - Session 1	3.0	Instructor-led (Virtual or F2F)
Project Issues and Challenges - Session 2	5.0	Instructor-led (Virtual or F2F)
Back to Work Plan Discussion	2.0	Instructor-led (Virtual or F2F)
Unit 13 Recap	2.0	Instructor-led (Virtual or F2F)

Post-Assessment Unit 13

2.0

Online Activity

UNIT 14: Comprehensive Review, Capstone Exercise and Testing	Duration (hours)	Delivery Format
Session One Review: Units 1, 2, 12, 13	3.0	Instructor-led (Virtual or F2F)
Session Two Review: Units 3, 4, 5	2.5	Instructor-led (Virtual)
Session Three Review: Units 6, 7, 8	4	Exercise-Instructor-led (Virtual)
Session Four Review: Units 9, 10, 11	4.5	Exercise-Instructor-led (Virtual)
Best Well Composite Review, Program Review	3.0	Instructor-led (Virtual)
Best Well Composite Review, Program Review, Contingency Day	3.0	Instructor-led (Virtual)
Final Exam - Session 1 (Unit 1, 2, 12, 13)	3.0	Online Activity
Final Exam - Session 2 (Unit 3,4,5)	3.0	Online Activity
Final Exam - Session 3 (Unit 6,7,8)	3.0	Online Activity
Final Exam - Session 4 (Unit 9, 10, 11)	3.0	Online Activity
Invisible Loss Time	1.0	Instructor-led (Virtual or F2F)
Review Unit 7, 8	2.0	Instructor-led (Virtual or F2F)
Perfect Well Exercise Program Review	3.0	Instructor-led (Virtual or F2F)
Final Exam	8	Online Activity
<i>Final Exam: An 8-hour test that involves applications and calculations can be developed at the end of the site supervision training milestone and a separate test can be developed at the end of the Well Planning training milestone</i>		

Product DetailsCategories: UpstreamDisciplines: Well Construction/Drilling

Levels:

Product Type: Course

Formats Available: [Virtual](#) [In-Classroom](#)

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