

## Track 2: Well Planner Development Program



### ABOUT THIS PROGRAM

PetroSkills is pleased to provide the Well Planner Development Program. This program is designed to assist you as you develop your employees into the functional role of a global well planner. By utilizing live virtual instruction session in a workshop format, attendees will be equipped to evaluate and apply the practical knowledge they receive in the Well Planner Development Program and apply the industry validated knowledge and skills with relevant on-the-job learning at the well site. This is an advanced level, hands on workshop and it is strongly recommended that attendees first complete the Well Site Supervisor Development Program to gain the critical fundamental level knowledge required in the Well Planner role.

Unit	Track 2: Well Planners*
1	Onsite Fluids Management
2	Casing and Cementing Operations
3	Directional Drilling
4	BHA Dynamics
5	Initial Completions and Well Testing
6	Interventions
7	Performance Improvement
8	Crew Resource Management Design Workshop for Wells Leaders
9	Business / Soft Skills Training
10	Project Management for Upstream Field Developments

\*A more detailed program outline is included at the end of this document

- Recommended program duration of 7 months, with the assumption that the individual would spend 2 weeks in office working with an experienced engineer.
- Pre-requisite: Well Site Supervisor Development Program and 3-5 years of field experience in the Well Site Supervisor role.
- Well Planner Development Program requires a minimum number of participants to go through the Workshops together virtually. Synchronous sessions required.

### DESIGNED FOR

This program is designed for individuals who have already completed the Well Site Supervisor Development Program as well as having a minimum of 3-5 years of practical experience in the field as a Well Site Supervisor.

### PROGRAM INSTRUCTORS

The following PetroSkills world-class facilitators in well construction and drilling will teach this program:

**Kevin Cuyler**

**James Bobo**

**Bob Sepulvado**

**Stan Atnipp**

**Peter Aird**

**Mason Gomez**

**Charlie Holt**

**Ken Lunsford**

**Kent Saugier**

For more information on these instructors, please visit:

[www.petroskills.com/instructors](http://www.petroskills.com/instructors)

Track 2: Well Planner Development Program

Month 1	<b>Unit 1: Onsite Fluids Management</b>	<b>Duration</b>	<b>Delivery Format</b>	
	<i>Fluid Design Workshop for Well Planners</i>			
	Design Considerations for Specialized Mud Systems	3 hours	Instructor-led (Virtual or F2F)	
	Offline Detailed Design	2 hours		
	Design Considerations for Specialized Solids Control	3 hours	Instructor-led (Virtual or F2F)	
	Offline Detailed Design	2 hours		
	Design Considerations for Specialized Waste Management	3 hours	Instructor-led (Virtual or F2F)	
	Offline Detailed Design	2 hours		
	Individual Design Presentations and Reviews	3 hours	Instructor-led (Virtual or F2F)	
	Back to Work Plan Discussion	2 hours	Instructor-led (Virtual or F2F)	
	2 weeks back in office working with your experienced engineer	80 hours		
Month 2	<b>Unit 2: Casing and Cementing Operations</b>	<b>Duration</b>	<b>Delivery Format</b>	
	<i>Casing Design Workshop for Well Planners</i>			
	Casing Setting Depths and Sizing	3 hours	Instructor-led (Virtual or F2F)	
	Burst and Collapse Loads	3 hours	Instructor-led (Virtual or F2F)	
	Offline Detailed Design Phase I	3 hours		
	Modifying Design for Tensile Loading	3 hours	Instructor-led (Virtual or F2F)	
	Offline Detailed Design Phase II	3 hours		
	Modifying Design for Tri-Axial Loading	3 hours	Instructor-led (Virtual or F2F)	
	Offline Detailed Design Phase III	2 hours		
	Other Tri-Axial Loading Scenarios	2 hours	Instructor-led (Virtual or F2F)	
	Back to Work Plan Discussion	2 hours	Instructor-led (Virtual or F2F)	
		<i>Cementing Design Workshop for Well Planners</i>		
	Design Considerations for Specialized Slurries	3 hours	Instructor-led (Virtual or F2F)	
	Offline Detailed Design	2 hours		
	Individual Design Presentations and Reviews	3 hours	Instructor-led (Virtual or F2F)	
	Back to Work Plan Discussion	2 hours	Instructor-led (Virtual or F2F)	
	2 weeks back in office working with your experienced engineer	80 hours		
Month 3	<b>Unit 3: Directional Drilling</b>	<b>Duration</b>	<b>Delivery Format</b>	
	<i>Directional Drilling Design Workshop for Well Planners</i>			
	Design Considerations for Specialized Directional Well Plans	3 hours	Instructor-led (Virtual or F2F)	
	Offline Detailed Design	2 hours		
	Individual Design Presentations and Reviews	3 hours	Instructor-led (Virtual or F2F)	
	Back to Work Plan Discussion	2 hours	Instructor-led (Virtual or F2F)	
	2 weeks back in office working with your experienced engineer	80 hours		

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Month 4	<b>Unit 4: Wellbore – Drilling Optimization Dynamics</b>	<b>Duration</b>	<b>Delivery Format</b>
	<b><i>BHA Dynamics Design Workshop for Well Planners</i></b>		
	Design Considerations for Specialized Bit Selection	3 hours	Instructor-led (Virtual or F2F)
	Offline Detailed Design	2 hours	
	Design Considerations for Specialized Hydraulics	3 hours	Instructor-led (Virtual or F2F)
	Offline Detailed Design	2 hours	
	Design Considerations for Specialized Drillstrings	3 hours	Instructor-led (Virtual or F2F)
	Offline Detailed Design	2 hours	
	Individual Design Presentations and Reviews	2 hours	Instructor-led (Virtual or F2F)
	Back to Work Plan Discussion	2 hours	
2 weeks back in office working with your experienced engineer	80 hours		
Month 5	<b>Unit 5: Initial Completions and Well Testing</b>	<b>Duration</b>	<b>Delivery Format</b>
	<b><i>Completion Design Workshop for Completion Planners</i></b>		
	Completion Design Considerations	3 hours	Instructor-led (Virtual or F2F)
	Offline Detailed Design	2 hours	
	Design Considerations for Specialized Well Testing	3 hours	Instructor-led (Virtual or F2F)
	Offline Detailed Design	2 hours	Instructor-led (Virtual or F2F)
	Individual Design Presentations and Reviews	3 hours	
	Back to Work Plan Discussion	2 hours	Instructor-led (Virtual or F2F)
	2 weeks back in office working with your experienced engineer	80 hours	
Month 6	<b>Unit 6: Interventions</b>	<b>Duration</b>	<b>Delivery Format</b>
	<b><i>Intervention Design Workshop for Intervention Planners</i></b>		
	Intervention Design Considerations	3 hours	Instructor-led (Virtual or F2F)
	Offline Detailed Design	2 hours	
	Individual Design Presentations and Reviews	3 hours	Instructor-led (Virtual or F2F)
	Back to Work Plan Discussion	2 hours	Instructor-led (Virtual or F2F)
	2 weeks back in office working with your experienced engineer	80 hours	
Month 7	<b>Unit 7: Performance Improvement</b>	<b>Duration</b>	<b>Delivery Format</b>
	<b><i>Performance Improvement Design Workshop for Well Planners</i></b>		
	Loss Prevention Strategies	3 hours	Instructor-led (Virtual or F2F)
	Offline Detailed Design	2 hours	
	Capture the Learnings Strategy by Hole Interval	3 hours	Instructor-led (Virtual or F2F)
	Offline Detailed Design	2 hours	
	Latent Cause Analysis	3 hours	Instructor-led (Virtual or F2F)
	Offline Detailed Design	2 hours	
	Individual Design Presentations and Reviews	3 hours	Instructor-led (Virtual or F2F)
	Back to Work Plan Discussion	2 hours	Instructor-led (Virtual or F2F)
2 weeks back in office working with your experienced engineer	80 hours		

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Month	Unit	Duration	Delivery Format
Month 8	<b>Unit 8: Crew Resource Management Design Workshop for Wells Leaders</b>		
	Factors that Effect Human Performance, Crew Resource Management	3 hours	Instructor-led (Virtual or F2F)
	Situation Awareness and Decision Making	3 hours	Instructor-led (Virtual or F2F)
	Effective Communications and Teamwork	3 hours	Instructor-led (Virtual or F2F)
	Factors that Impact Human Performance	3 hours	Instructor-led (Virtual or F2F)
	Leadership	3 hours	Instructor-led (Virtual or F2F)
	Observations and Intervention	3 hours	Instructor-led (Virtual or F2F)
	Back to Work Plan Discussion	2 hours	Instructor-led (Virtual or F2F)
	Unit 10 Recap	2 hours	Instructor-led (Virtual or F2F)
	<b>2 weeks back in office working with your experienced engineer</b>	<b>80 hours</b>	
Month 9	<b>Unit 9: Business / Soft Skills Training</b>		
	Production Forecasting	4 hours	Online Activity
	Oil and Gas Pricing	4 hours	Online Activity
	Cash Flow	4 hours	Online Activity
	Economic Decision Tools	4 hours	Online Activity
	Risk and Uncertainty	4 hours	Online Activity
	Financing and Ownership	4 hours	Online Activity
	Petroleum Industry Accounting	4 hours	Online Activity
	Budgeting	4 hours	Online Activity
	Back to Work Plan Discussion	2 hours	Instructor-led (Virtual or F2F)
	Unit 9 Recap	2 hours	Instructor-led (Virtual or F2F)
	<b>2 weeks back in office working with your experienced engineer</b>	<b>80 hours</b>	
Month 10	<b>Unit 10: Project Management for Upstream Field Development</b>		-
	Onshore Field Development Programs and Projects Core	3 hours	Online Activity
	Project Governance Core	3 hours	Online Activity
	Project Resources and Organization Core	4 hours	Online Activity
	Scope Delivery Core	4 hours	Online Activity
	Design Engineering Management Core	3 hours	Online Activity
	Acquiring Goods and Services Core	4 hours	Online Activity
	Construction Management Core	4 hours	Online Activity
	Risk Management Core	4 hours	Online Activity
	Cost Estimating for Facility Projects Core	4 hours	Online Activity
	Scheduling Core	2.5 hours	Online Activity
	Progress Measurement Core	4 hours	Online Activity
	Back to Work Plan Discussion	2 hours	Instructor-led (Virtual or F2F)
Unit 10 Recap	2 hours	Instructor-led (Virtual or F2F)	
	<b>2 weeks back in office working with your experienced engineer</b>	<b>80 hours</b>	