



DEMS

Beyond Engineering

Subsea Flow Assurance Course



Subsea Specialist Course 1

Course	Subsea Introduction and General Awareness
Trainer(s)	Mohsen Shavandi

Topic	Day 1 Morning	Day 1 Afternoon	Day 2 Morning	Day 2 Afternoon
Introduction and Overview				
Field Economics/ Architecture				
System Configuration				
Introduction to Well Design				
Introduction to Drilling				
Introduction to Completions				
Xmas Tree Concepts				
Templates and Manifolds				
Risers and Umbilical's				
Tie-Ins				
Production Control Systems				
Workover Systems				
ROV Intervention Systems				
Subsea Codes and Standards				
Subsea Valves				
FAT, PVT, SIT				

Subsea Specialist 2

Course	Flow Assurance
Trainers	Vicki Niesen, Trent Brown

Topic	Day 1 Morning	Day 1 Afternoon	Day 2 Morning	Day 2 Afternoon	Day 3 Morning	Day 3 Afternoon
Main Phenomena in Pipe Flow						
Pipe Friction						
Simulation of Subsea Pipelines						
Categorizing Flow						
Flow Regimes (e.g. 2, 3 and 4 Phase Flow)						
Flow Deposits (e.g. Hydrates, Wax, Scale)						
Slugging and Slug Control						
Heat Insulation						
Heat Insulation						
Simulation Tools						
Simulation Examples						
Best Practice, Pitfalls, and Key Concepts						