



DEMS

Beyond Engineering

Subsea Computational Fluid Dynamics 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 Course 6

Course	Computational Fluid Dynamics
Trainers	Mustafa Kara

Topic	Day 1	Day 1	Day 2	Day 2	Day 3	Day 3
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
Fundamentals of CFD						
CAD Preparation and Meshing in CFD						
Incompressible and Compressible Turbulent Flows						
Passive Scalar Mixing and Multi-Phase Flows						
Advanced Concepts- Rotating Machinery and Porous Media						