

COMPLETION EQUIPMENT & OPERATIONS Course

Detailed Course Contents

Monday (Completion Operations & Equipment A)

Morning (08:30 – 12:30)

Introductions – venue / instructor / attendees / course overview

1. Completion Architecture
 - a. Well Objectives / Design Data requirements / Industry Standards / DCR Regulations
 - b. Drilling & other well construction considerations
 - c. Open Hole v Cased Hole
 - d. Horizontal / Multilateral / Intelligent
 - e. Slimhole / Monobore / Single / Dual / Insert
 - f. Key interfaces between elements of completion architecture.
 - g. Innovative Technologies / Swelling Seals / Expandable Pipe / DTS / RFID etc.
 - h. Life Cycle Issues

Afternoon (13:30 – 17:30)

2. Sand Face Completion
 - a. Hole Size & Liner considerations
 - b. Sand Control / Sand Production Prediction / Stand Alone Screen and gravel Pack Screen & Gravel Size Selection / Expandable Screens / Frac Pack / Inflow Control
 - c. Perforating Design, Specification & Execution / Estimating Static under-balance requirement / Dynamic Under-balance
 - d. Fluids & Filtration

Tuesday (Completion Operations & Equipment B)

Morning (08:30 – 12:30)

3. Tubing String Components
 - a. Wellhead , Tree & Tubing Hanger / Surface & Subsea

- b. Tubing Size / Tubing Strength / Tubing Connections
- c. Subsurface Safety Valves
- d. Nipples, Plugs and other Flow Control Devices
- e. Packers & Tubing Movement
- f. Artificial Lift Equipment
- g. Material Selection & Corrosion
- h. HPHT considerations

Afternoon (13:30 – 17:30)

- 4. Completion & Intervention Operations
 - a. Outline Completion Program Steps
 - b. Intervention Equipment & considerations
 - c. Well Integrity Issues
 - d. Benchmarking performance, JIPs & networking

END OF COURSE