



# Canadian Petroleum Training Institute Ltd.

## EXAMPLE

### **COURSE OUTLINE** **DRILLING OPTIMIZATION**

#### **Developing the Drilling Plan**

- Rig Selection
- Drilling Fluids System
- Drill Bit Selection
- Bit Hydraulics
- Weight on Bit
- Casing and Liners
- Under Balance Drilling
- Pressure Managed Drilling
- Measurement While Drilling Requirements, (MWD)
- Logging While Drilling Requirements, (LWD)

#### **Field Implementation of Drilling Plan**

- Monitoring the Drilling Fluids System
- Bit Hydraulics
- Weight on Bit
- MWD
- LWD

#### **Field Implementation of Under Balanced and Pressure Managed Drilling**

- Under Balanced Systems
- Pressure Managed Drilling

#### **Unscheduled Events: Problems, Recognition and Prevention**

- Stuck Pipe
- Lost Circulation
- Rig Repairs
- Well Control
- Casing and Cementing