



Canadian Petroleum Training Institute Ltd.

EXAMPLE

COURSE OUTLINE

OIL and GAS PROCESSING

Background Theory

- Natural Gas and Liquids Chemistry
- Physical Properties of Natural Gas and Condensate
- Acid Gases
- Phase Equilibrium and Vapour-Liquid Calculations
- Water-Hydrocarbon Systems

Field Processing of Natural Gas

- Hydrate Formation and Recognition
- Hydrate Removal
- Field Compression of Natural Gas

Gas Processing

- Liquid Hydrocarbon Separation
- Gas Sweetening
- Sulphur Recovery and Tail Gas Treatment
- Gas Fractionation

Introduction to Refinery

- Introduction to Refining
- Crudes and Products
- Logistics Considerations
- Key Processes

Fuels

- Heavy Fuel Reduction
- Fundamentals of Refinery Economics
- Fuel Specifications
- General Trends

Plant Design

Separation units

- Introduction to Distillation
- Design Considerations
- Pressure and Temperature design
- Corrosion Allowance
- Construction Materials
- Operational considerations