



DRLG 6077: Snubbing Operations

Learning Outcome

When you complete this module you will be able to

Discuss the applications and procedures for snubbing operations and know your role in working with snubbing operators on location.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Describe what snubbing is and how it works.
2. Identify and describe different snubbing applications.
3. Describe your role in working with snubbing operators on location.

ENGD 6014: Generators and Engine Maintenance

Learning Outcome

When you complete this module you will be able to

Perform regular preventative maintenance on gas or diesel engines and troubleshoot minor problems with engines and electric generators.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Identify the different types of generators that well testers use.
2. Perform preventative maintenance and troubleshoot problems.
3. Become familiar with the related safety concerns when working with generators.

ENVS 6004: Environmental Monitoring of Air

Pollutants

Learning Outcome

When you complete this module, you will be able to ...

Describe commonly used methods to monitor for common air pollutants.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Explain the terms used in air pollution monitoring.
2. Discuss the major types of air pollutants and how they are measured.



ENVS 6105: Data Gathering and the ERCB

Rationale

Why is it important for you to learn this material?

As supervisors compiling the raw data collected during a well servicing operation, understanding why the data is collected and how it is conveyed is crucial to successful reporting.

Learning Outcome

When you complete this module you will be able to

Understand the importance of descriptive comments used in well servicing notes. Understand what other information is important to data gathering. Understand the information reported to the ERCB.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Convey accurate and descriptive well servicing reports.
2. Explain the ERCB requirements of reporting.

INST 6116: H₂S Scrubbing Systems

Learning Outcome

When you complete this module you will be able to

Describe the use and selection of various scrubbing systems and their components.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Determine where and when H₂S scrubbing systems are needed.
2. Identify the capabilities and limitations of different scrubbing types.
3. Match particular scrubbing systems to the job scope.

INST 6125: Propane and Sweet Gas Systems

Rationale

Why is it important for you to learn this material?

It is critical to understand the special equipment needs, operation and spacing of propane and sweet gas supply systems, as well as potential hazards involved when using this equipment.

Learning Outcome

When you complete this module you will be able to

Identify propane systems used in well testing, as well as to understand why this system is important when working around a well containing H₂S.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Describe propane vapourizers and propane tanks.
2. Explain how to spot vapourizer and propane tanks.
3. Explain how to tie in propane tanks and the purpose of a scrubber.
4. Explain how to light a propane vapourizer.
5. Describe procedures for maintenance and trouble shooting.



6. List potential hazards when working with propane systems.

INST 6132: Emergency Shut Down Systems (ESDs)

Learning Outcome

When you complete this module you will be able to

Identify the different types of Emergency Shut Down Systems and the reasons that they are required.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Identify the different types of valves and when they are required.
2. Describe the basic set-up and operation of Emergency Shut Down Systems.
3. Become familiar with the related safety concerns.

INST 6133: Introduction to Emergency Response/Contingency Planning

Rationale

Why is it important for you to learn this material?

Being prepared and knowing how to prepare is fundamental in minimizing the downgrading effects of any emergency situation. Companies have an ethical and moral responsibility to be prepared to respond and protect their employees, the public and the environment.

Learning Outcome

When you complete this module you will be able to

Recognize the need for and the basic design of an Emergency Response/Contingency Plan.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Identify emergencies that are most likely to occur.
2. Generate a basic emergency plan notification schedule.
3. Describe the duties of key personnel in an emergency situation.
4. Describe how to respond to an emergency situation involving dangerous goods.

PROP 6050: Flanges, Hammer Unions and Other Connectors

Learning Outcome

When you complete this module you will be able to

Identify and discuss the different types of flanges, hammer unions and other connectors used in the upstream petroleum industry, know the correct application and connection procedure for each type of connection in your work with well surface testing, and the hazards associated with each.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Describe types of flanges, flange components, applications and installation.



2. Describe the differences and similarities between the types of hammer union connections.
3. Describe camlock and similar fittings
4. Describe hex nut unions
5. Describe compression type instrument tubing fitting
6. Describe the hazards that need to be considered when hammer union and other connections are made.

PROP 6052: Service Rigs: Swabbing Operations and Steam Handling

Learning Outcome

When you complete this module you will be able to

Understand the process of swabbing operations and steam handling in the well service industry.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Identify service rig components and describe their basic function.
2. Describe the process of swabbing operations.
3. Describe the process of steam handling.

PTPR 6102: Coiled Tubing (N₂ Pumpers)

Learning Outcome

When you complete this module, you will be able to...

Understand the process of coiled tubing in the well service industry.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Describe how and why coiled tubing was developed.
2. Identify the components of a coiled tubing operation.
3. Describe the range of coiled tubing operations.

PTPR 6103: Perforating and Wireline Services

Learning Outcome

When you complete this module you will be able to

Explain the Perforating and Wire Line processes.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Describe the Perforating process.
2. Describe Wireline Services.



PUMP 6002: Artificial Lift - Gas Lift/Plunger Lift

Learning Outcome

When you complete this module, you will be able to...

Describe artificial lift mechanisms for gas lift and plunger lift systems.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Explain the gas lift process.
2. Explain the plunger lift process.

PUMP 6012: Pump Operation and Maintenance

Learning Outcome

When you complete this module you will be able to:

Describe the major considerations and procedures for pump operation and maintenance.

Learning Objectives

Here is what you will be able to do when you complete each objective:

1. Describe the various types of seals used on pumps.
2. Explain how to replace pump packing.
3. Describe pump alignment and the purpose of flexible couplings.
4. Explain how to prime a pump.
5. Describe the maintenance performed on pump bearings.
6. Explain how to start centrifugal pump.
7. Describe various problems related to centrifugal pump operation and how to troubleshoot for these problems.

QUAL 6010: Quality Control

Learning Outcome

When you complete this module you will be able to

Explain the basics of quality control and its importance in the oil and gas industry for safety and uninterrupted production.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Describe the purpose of quality control.
2. Describe the difference between quality control and quality assurance.

SAFE 6078: Handling Radioactive Materials

Learning Outcome

When you complete this module you will be able to

Understand and provide information to assist members of the Petroleum Industry in Canada performing any task that requires working in and around naturally occurring radioactive material (NORM) and what precautions to take when working with them.



Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Describe Naturally Occurring Radioactive Materials (NORMs) and exposure levels.
2. Identify Flow Back Procedures involving the use of Radioactive Materials.
3. Explain Handling of radioactive materials.

SAFE 6088: Free Standing Flare Stack Erection and Anchoring

Learning Outcome

When you complete this module you will be able to

Discuss techniques for securing freestanding flare stacks, methods of erection, lengths and angles of guy lines and ignition methods.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Describe anchor-setting requirements.
2. Describe anchor positioning and guy line requirements.
3. Discuss the methods used to erect and secure a freestanding flare stack.

SAFE 6089: Ground Disturbance

Rationale

Why is it important for you to learn this material?

It is important to learn this material for the purpose of any ground disturbance that may occur on locations or in any areas that have the potential of underground lines or facilities. The purpose of this document is to provide information and guidance that will enhance worker safety, public safety, protection of the environment, and preservation of the integrity of essential underground infrastructure when ground disturbances are undertaken in the vicinity of buried facilities.

It is intended to increase workers, employer, prime contractor, consultant, and owner awareness of the potential hazards, legislated requirements, and industry standards associated with undertaking ground disturbances in the vicinity of buried facilities. The prevention of damage to buried facilities, like safety, is a shared responsibility.

Learning Outcome

When you complete this module you will be able to

Understand and provide information to assist members of the petroleum industry in Canada performing any task that requires a disturbance of the ground where buried facilities may exist. This document is intended to be a guide only as in the IRP-17.

Learning Objectives

Here is what you will be able to do when you complete each objective.

1. Recognize when Ground disturbance requirements come into effect.
2. Describe the regulations from the Occupational Health and Safety (OH&S) general safety regulation.
3. Explain the ground disturbance guidelines.