M O D U L E  6 6 1 0 1 - 0 2 – INTRODUCTION TO THE PIPELINE INDUSTRY

1. Explain the basic functions and purposes of pipelines and facilities and identify the characteristics and hazards of common pipeline products.
2. Identify maps and drawings used to depict pipelines and facilities.
3. Explain the roles of control personnel and equipment in the overall operation of a pipeline.
4. Explain liquid pipeline hydraulics and gas pipeline pneumatics.
5. Explain the types and purposes of pipeline equipment.
6. Explain pipeline electrical power systems and corrosion control.
7. Review operations, maintenance, and emergency procedures and perform documentation required for pipeline operations.

M O D U L E  6 6 1 0 2 - 0 2 – LIQUID PIPELINE GENERAL ABNORMAL OPERATING CONDITIONS

1. Recognize and react to abnormal facility conditions.
2. Recognize and react to activation of a safety device.
3. Recognize and react to communications failures.
4. Recognize and react to power interruptions.
5. Respond appropriately to fire, explosions, and natural disasters.
6. Recognize and react to pipeline system damage.
7. Recognize and react to unexpected hazardous liquid or carbon dioxide (CO₂) leaks.
8. Recognize and react to unexplained pressure deviations.

M O D U L E  6 0 1 0 2 - 0 2 – BASIC PIPELINE HYDRAULICS AND EQUIPMENT

1. Explain basic hydraulic systems.
2. Describe hydraulics as applied to pipeline operations.
3. Identify and explain basic types of hydraulic pumps and valves.
4. Describe the operation of pumps used in pipelines.
5. Identify and explain basic types of valves used in pipelines.

M O D U L E  6 0 1 0 3 - 0 2 – PIPELINE COMMUNICATIONS

1. Identify and explain the internal communications requirements for operating the pipeline and the pipeline facility.
2. Explain the communications responsibilities of the pipeline facility scheduling department.
3. Identify and explain the external communications procedures that must be followed to inform and educate the general public on pipeline issues.
MODULE 60104-02 – PRODUCT BATCH AND PIG TRACKING
1. Track line inventory to ensure product quality.
2. Identify interface changes to isolate batches.
3. Track pigs to clean or inspect the pipeline.

MODULE 60105-02 – ROUTINE FIELD AND FACILITY OPERATIONS (CT 43.1, 43.2, & 43.4)
1. Visually check facility as required.
2. Perform tank management procedures.
3. Operate valves manually or by remote control (CT 43.4).
4. Operate facility pumping equipment.
5. Set alarm parameters.
6. Perform normal facility startup and shutdown procedures (CT 43.1 and 43.2).
7. Correctly perform batch switches.
8. Calculate facility over/short.
9. Complete required operations documentation.

MODULE 60106-02 – MONITORING PIPELINE OPERATIONS (CT 43.3)
1. Monitor pipeline parameters to ensure normal facility operation (CT 43.3).
2. Monitor safety devices (CT 43.3).
4. Monitor specific areas using remote video for operations.
5. Monitor weather conditions.

MODULE 60107-02 – FIELD QUALITY CONTROL
1. Activate tank mixing devices.
2. Take product samples.
3. Perform product testing.
4. Perform pipeline switching.
5. Perform blending operations.
6. Explain the use of and inject appropriate additives.

MODULE 60108-02 – FIELD MEASUREMENT
1. Identify types of meters.
2. Explain how to maintain accurate measurement on all custody receipts and deliveries.
3. Explain how to verify meter accuracy.
4. Explain the need and frequency of performing waterdraws on provers.
5. Use tank strappings.