

LEVEL

Knowledge

PURPOSE

This course provides the basic know-how for holding safely and effectively a field technician position. Successful participants will be granted the "Field Operator" Vocational Certificate.

LEARNING OBJECTIVES

Upon completion of the course, participants will be able to:
execute basic monitoring of field equipment, in compliance with Safety and Environmental rules, under shift leader guidance, safely perform all routine operations related to operator duties, communicate effectively with their colleagues within the shift team and at the shift handover.

WAYS AND MEANS

Split of training activities between classroom training, OJO (On-the-Job Orientation) and OJT (On-the-Job Training). During classroom training, minimum theoretical lectures, with key-points, and lots of practical exercises, applications and workshops.

Observations and work on the field (OJO), with the IFP Training instructor, to apply each topic covered during the course.

Assistance of company mentors for the field parts of the course, followed by the student during his day-to-day activities.

LEARNING ASSESSMENT

Continuous assessments all-along the program.

Final assessment including a report presentation in front of a jury.

PREREQUISITES

To be eligible for this training course, the candidate must have an academic scientific knowledge equivalent to British O levels A or year 13 (UK).

Having already been pre-recruited by an Oil & Gas company.

Although not mandatory, a technical education is desirable.

WHY AN IFP TRAINING CERTIFICATION?

- An international recognition of your competencies.
- A Vocational Certificate delivered.
- An expertise confirmed in Field Operator Training Course.
- Ready-to-use skills.

Agenda

CLASSROOM TRAINING (THEORETICAL & PRACTICAL)

40 d

Module 1: Safety basics, piping

Risks of the areas. Preventive actions in place on sites to cover these risks. Collective prevention. PPE. Piping description, basic operation of piping networks and accessories. Equipment isolation. Flex hoses.

Module 2: Instrumentation - Schematization

Common types/purpose of sensors. Automated valves. Control/Safety loop basics. Instrument field monitoring.

PFD. P&ID: symbols, equipment identification, field verification, drawing from field. Isometric diagram highlights.

Module 3: Exchangers

Most common types of exchangers, role of each component, related risks and safety systems.

Control of exchanger status during rounds. Main operating tasks (switch, isolation, commissioning).

Module 4: Pumps

Pump types, operating principle. Purpose and description of auxiliaries. Risks related to the pump and its environment.

Single-stage pump field monitoring. Basic operations (switching, commissioning, de-commissioning).

Module 5: Furnaces & Boilers

Heater types, operating principle, main characteristics. Operating parameters. Role of each key equipment part.

Operating risks, safe behavior. Field monitoring. Normal shutdown/start-up. Identification of abnormal situations.

Module 6: Compressors

Most common compressor types, purpose and operating principle. Purpose and description of auxiliaries.

Field risks. Compressor monitoring. Identification of anomalies. Basic field operations (lubrication, drainage).

Module 7: Processes and Products

Risks related to processes, operating conditions. Main characteristics of the products present in his sector.

Tank monitoring. Basic routine tasks (loading/unloading, purging/venting, sampling, chemicals addition).

Module 8: Steam turbines - Job practice

Purpose and operating principle of a steam turbine. Auxiliaries. Basic turbine monitoring. Commissioning/startup.

Shift handover (communication, priorities). Field technician rounds (observations, data collection, reporting).

ON THE JOB ORIENTATION

80 d

Practical application on the field, during two weeks, of the learnings of each of the classroom modules above.

Close supervision of an IFP Training instructor.

ON THE JOB TRAINING

55 d

Site presentation, safety instructions, main feeds and products, protection and prevention.

Field training with the assistance of IFP Training instructor and company mentor:

Equipment identification, follow-up of basic operations.

Identification of technician tasks and responsibilities, specific company rules and procedures.

Process highlights, feeds and product characteristics, process and utility networks.

Field basic monitoring of each equipment of the unit.

Practice of each basic field operation, under control of the company mentor.

ASSESSMENT

5 d

Continuous assessment (in class and on the field) during training modules.

Final examination on the field to confirm proficiency (knowledge of circuits, equipment and processes, job practice).

Professional behavior assessment.