

Training - Commissioning and Start-Up of Process Units



OPDEM-EN-P



Face-to-face only



5 days

Prepare participants to manage commissioning and start-up operations

Level

Skilled

Public

Supervisors, engineers and technicians of oil/chemical companies or engineering, involved in the commissioning and start-up of new units

Objectives

Attendees will be able to implement the following skills:

- Present pre-commissioning, commissioning and start-up activities on a project from the perspective of their programming and management
- Specify the basis for supervising or delegating activities in a context of mastering the specific constraints related to these operations

Pedagogical & technical resources

Cases studies on the precommissioning, commissioning and start-up of typical units

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsible

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

PROJECT BACKGROUND & COMMISSIONING PHASES

2 days

Main phases of a project.

Engineering studies (FEED, Detail) and anticipation of commissioning activities.

Project contract type and impact on commissioning activities.

Integration of commissioning activities into the project process: mechanical completion, pre-commissioning, commissioning and start-up activities during the project steps.

ORGANIZATION

1 day

Commissioning procedures. Interfaces with the different engineering disciplines according to the types of

contract.

Plant/project breakdown into systems and subsystems. Execution plan for commissioning and start-up. Setting up of commissioning/start-up teams. Split of responsibilities. Preparation of the list of precedents. Start-up phases: pre-commissioning, commissioning and preparation for start-up, performance tests, provisional acceptance, mechanical guarantees, final acceptance. Hand over.

SAFETY

0.25 day

Risks related to the auxiliary fluids and the introduction of hydrocarbons. Risk evolution between construction, commissioning and start-up. Control of the risks related to modifications during the different phases. Pre-Start-up Safety Review (PSSR).

END OF CONSTRUCTION - PRECOMMISSIONING

0.75 day

Precommissioning activities: static verification of equipment, hydraulic tests and equipment cleaning, involvement of operations in the mechanical completion, punch-list, actions follow-up and close out.

COMMISSIONING

0.75 day

Commissioning activities. Cleaning, flushing, blowing and drying. Dynamic testing. Synchronization of control loops and Programmable Logic Controller (PLC).

START-UP & ACCEPTANCE

0.25 day

Start-up permit: checks required before oil-in. Leak tests, air removal, raw materials introduction. Transition towards industrial production: performance tests, temporary and final acceptance, responsibility transfer.

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com