

Training - Oil and Gas Field Processing Troubleshooting



TROUBLE-EN-P



Face-to-face only



5 days

To contribute to troubleshooting operations by identifying and tackling process deviations and abnormal conditions using a structured, step-by-step approach

Level

Knowledge

Public

Field operators, control room operators, supervisors and maintenance technicians, looking to acquire best practices of Oil & Gas production facilities troubleshooting

Objectives

Attendees will be able to implement the following skills:

- Explain operation normal conditions, list common issues on main O&G processes and major equipment
- Identify roots causes to process deviations and abnormal conditions by using a structured, step-by-step approach
- Find an adapted solution to the identified problem

Pedagogical & technical resources

- Training delivery with industry specialist lecturers
- Methodology illustrated by multiple industrial case studies
- Use of a dynamic simulator for process control tuning
- Specific case study related to the actual plant operated by the participants

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer, such as case studies
- 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

METHODOLOGY

0.75 day

Troubleshooting flowchart.

Recognize a trouble when occurring. Problem definition using ISHIGAWA fishbone chart.

Methodological approach to identify causes and remedial options.

CASE STUDIES

1.25 days

Operating parameters instability.
Compressor failure.
Glycol and hydrate inhibition.
Non-compliance with product specifications.
Pipeline network analysis.
Flowline erosion.

CASE STUDIES (ON SIMULATOR)

0.5 day

Through dynamic simulation exercises, the participants will study various cases of malfunctions either due to inappropriate tuning of control loop parameters or due to instruments or equipment failures.

SPECIFIC CASE STUDIES IN MINI-PROJECTS (ON SIMULATOR)

2 days

During these two days, split in small sub-groups and in complete autonomy, the participants will apply the just acquired troubleshooting methodology, based on dynamically simulated and realistic field cases (offshore and onshore production plants). This includes (but is not limited to):

- Description of normal production operations of the unit - review production units current operating conditions.
- Identification and localization of the simulated malfunctions – review of abnormal conditions, operating parameters disturbances phenomena and observed consequences.
- Identification of the most probable causes.
- Prioritization and implementation of solutions.

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