



# Training

**in Gas Dehydration Unit process, operation,  
and maintenance.**

## Course objective

To provide technical knowledge of the Gas Dehydration Unit (GDU), as well as an overview of its operation (including start-up, shutdown, troubleshooting), and maintenance.

## Who should attend?

Engineers, operators, and technicians working on production units.

## Upon completion of the course, participants will know the following:

- Fundamentals of the GDU
- Details of the GDU unit such as Molsieve, Silica, TEG (Tri Ethylene Glycol), MEG (Mono Ethylene Glycol), and PSA (Pressure Swing Adsorption)
- GDU control and safety philosophy
- GDU key parameters
- Unit operation: start-up, shutdown, emergency shutdown, and troubleshooting
- Equipment maintenance and maintenance schedule for the main equipment

## Deliverables

- Training documentation
- Training execution
- Workshop participation

## Location

Selected NOV training centers or client preference. Preferably on site. Training can also be offered online.

## Duration

3 days, depending on complexity.

## Contact

[process-systems@nov.com](mailto:process-systems@nov.com)

## Training course includes

- Training by experienced technology personnel
- 3 days training for up to 10 trainees
- Hard and soft copies of training material in English

## Course content

### Welcome

- Safety moment
- Review of agenda
- Course objectives
- Introduction of participants and their expectations

### Overview

- Introduction
- Process design basis of the unit
- Review of process flow diagram and P&ID explanation
- Site visit or 3D model presentation

### Fabrication

- Fabrication
- Main specification applicable
- Material selection

### Control and safety philosophy

- Process description and equipment key parameter
- Cause and effects chart
- Shutdown philosophy
- Heater system/control system

### Operation

- Start-up preparation
- Unit stabilization
- Troubleshooting

### Maintenance

- Maintenance of equipment
- Maintenance schedule
- Spare parts management

### Evaluations

- Q&A session
- Review – have the learning objectives been met
- Evaluation of course

