



# Training

**in MEG Loop Chemistry principles and operational procedures for a slip stream system.**

## Course objective

Provide an understanding of the chemistry in the MEG Regeneration Unit (MRU) and complete MEG loop. Provide requirements for sampling, analysis, and trending of parameters that are important for operation of a slip stream system.

## Who should attend?

The course is tailored for production chemists. Production engineers, supervisors, and laboratory technicians involved in sampling, laboratory analysis, and monitoring of the Monoethylene Glycol (MEG) loop chemistry should attend parts of the course.

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

- Overview of MEG technology
- Basic MEG loop chemistry
- MEG sampling requirement and specific lab methods
- Predicting chemical injection rates
- MEG unit key operating parameters – what to trend
- MEG chemistry and common operational issues
- Available site- and back-office support

## Deliverables

- Training documentation
- Training execution
- Workshop participation

## Location

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

## Duration

3 days, pending complexity of MEG system.

## Contact

[wellstreamprocessing@nov.com](mailto:wellstreamprocessing@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 of MEG reclamation technology and MEG loop chemistry

- Introduction to MEG recovery technology
- Process design basis
- Review of process flow diagrams
- MEG chemistry basics
- MEG loop chemistry
- MEG pre-treatment chemistry
- MEG reclaimer chemistry
- Corrosion and oxygen ingress

### Applied MEG chemistry

- Sample points location, sample matrix, and frequency
- Discussion around laboratory readiness and procedures
- Alkalinity titrations in MEG systems
- Chemicals and utilizing laboratory data for calculation of injection rates
- Chemical accumulation in the loop
- Parameters to trend and monitor
- Alkalinity and scaling risk

### MEG unit troubleshooting

- Typical operational issues
- Reclaimer operational issues: organic acid accumulation, gelling, and scaling
- Pre-treatment operational issues: scaling, hydrocarbons, and particles

### Overview of services

- Flow loop test facilities and pilot plant
- Chemical qualification
- Scale studies
- Site support
- Sampling schedule review

### Evaluations

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

To give maximum value the course content is customized to each project.

