



## Oil Well Pad Facilities (for non-Facilities Engineers) - OWPF-nFE

### COURSE

#### About the Course

This course provides a comprehensive overview of onshore oil well-pad facilities as typically utilized for the development of shale/tight oil fields. The course is focused on the purpose, function, and operation of the facilities - what, why, how - not on the more detailed engineering aspects which are covered in a companion course OWPF-FE (for Facilities Engineers). A major aspect of the non-Facilities Engineers course is how the pad facilities integrate with the wells/subsurface and also the product (oil, gas, produced water) export systems. This course does not contain many calculations; instead the intent is to generate discussion and better understanding of the issues involved with design, operation, and maintenance of the pad facilities and their role in providing value to the development as a whole.

#### Target Audience

This course is aimed primarily at non-Facilities Engineers, e.g. production/reservoir engineers, operations personnel, environmental staff, etc., or anyone who needs a basic understanding of oil well pad facilities - what they do and how they work.

#### You Will Learn

- The different types of process flow schemes typically used for oil well pad facilities
- The various types of engineering drawings used to describe facilities and how to interpret them
- How well production characteristics/performance should be integrated into the facilities design
- The range of fluid compositions and properties typically encountered in the newer shale/tight oil developments and their impact on facilities design and operation
- The main processing requirements and associated equipment types typically required
- How the various processes and equipment types work, with focus on the requirements of typical onshore shale/tight oil well pad facilities
- Effects of third party gas gathering system design and operation on the well pad facilities

#### Course Content

- Engineering drawings
- Oil well pad process flow diagrams
- Well production characteristics
- Fluid compositions and properties

- Separation equipment
- Oil treating
- Oil stabilization
- Storage tanks and vapor recovery
- Facility piping systems
- Compressors
- Sand handling
- Produced water handling
- Flow measurement

## Product Details

Categories: [Midstream](#)

Disciplines: [Process Facilities](#) [Unconventional Resources](#)

Levels: [Basic](#)

Product Type: [Course](#)

Formats Available: [In-Classroom](#)

Instructors: [Mark Bothamley](#)