Production System Optimisation Course

APES ENERGY EVOLUTION
&
Pecten Development Learning Solutions

Course Overview

From reservoir to export, the course equips production and maintenance professionals to identify, analyse and eliminate system constraints that limit throughput and efficiency. Participants develop the skills to run production system optimisation (PSO) initiatives in their field.

The course blends modern data-driven methods with over four decades of operational experience. Its practical, blended approach strengthens in-house capability and delivers measurable value across the production system.

Why Send Your Staff on This Course?

The course re-energises optimisation thinking across production and technical teams. It re-establishes systematic performance improvement and helps participants turn analysis into action.

- **Unlock hidden potential:** recognise production losses and quantify constraints to reveal quick wins and high-value opportunities.
- **Strengthen decision quality:** use real data and system behaviour to improve the quality and credibility of technical discussions.
- **Promote cross-functional understanding:** explore how wells, facilities and utilities interact through assignments and subject matter expert (SME) engagement.
- **Build sustainable capability:** embed learning in daily work so local PSO practitioners can continue independently.

Course Objectives

The course is designed to:

- Identify and analyse system bottlenecks using operational data.
- Strengthen links between production operations, maintenance and process control.
- Re-establish PSO as part of the asset's routine continuous improvement.
- Generate practical, data-supported improvement ideas for management review.
- Prepare participants for formal PSO reviews or mentored field projects.



Knowledge and Understanding

Participants will gain practical insight into:

- **Systems thinking:** the integrated reservoir-to-export chain.
- **Loss categorisation:** structured models, including the 28-blade framework.
- **Data analysis:** turning plant data into actionable performance insights.
- **Bottleneck diagnosis:** quantifying and verifying system constraints.

Course content draws on participants' own operating environments, ensuring relevance and immediate operational benefit.

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Who Should Attend?

The course is ideal for field operations staff and team leaders, operations technologists and maintenance staff.

It is equally valuable for early-career engineers seeking exposure to integrated system behaviour and experienced staff looking to refresh or formalise their PSO expertise.



Hybrid Learning Structure

The course follows a hybrid learning model:

1. Online Registration & Induction

   An introductory session aligns expectations, confirms learning objectives and tailors assignment scope to participants' roles.

2. Online Assignments

   Five assignments cover system mapping, loss identification, data gathering, bottleneck analysis and opportunity generation. Each includes short engagement with relevant SMEs.

   For an additional final assignment, "My Bottleneck", each participant prepares a short, data-based case on one identified constraint, validated with an SME. This becomes their teach-back presentation for the face-to-face week. Participants may invite their SME and handle the logistics.

3. Face-to-Face Workshop

   A practical, interactive week combines teach-backs, group diagnostics and a live PSO case study. It concludes with team presentations to management and participant certification.

4. Field Impact Project (Optional)

   An optional follow-up project enables participants to implement their chosen bottleneck remediation.

Progress Tracking

Full course administration and participant tracking are included. Weekly progress updates provide visibility into participation, engagement and overall progress.

Companion Courses

The course complements:

- Field Production Operations Course
- Field Maintenance Course
- Planning, Programming & HCA Course

Together, these form a structured development path for technical and supervisory staff.

Queries

For availability and proposals: enquiries@apes-energyevolution.com