

Oil and Gas Operational Excellence Systems Training Course

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Overview

Oil and Gas Operational Excellence Systems Training Course is a one-week intermediate course for operations managers, asset leaders, reliability engineers, improvement specialists, and performance teams who leave with an Asset Excellence Operating Book. Participants connect process safety, operating discipline, asset reliability, production efficiency, maintenance execution, performance indicators, and continuous improvement. The course uses barrier-health reviews, reliability tools, constraint maps, tiered dashboards, field assessments, and action planning. Agile Leaders Training Center presents this course on oil and gas operational excellence systems.

Who Should Attend

- Teams responsible for safe and reliable asset operations
- Functions responsible for maintenance strategy and work execution
- Professionals responsible for production performance and constraint removal
- Groups responsible for process safety and barrier assurance
- Leaders responsible for performance reviews and improvement portfolios
- Teams responsible for operational readiness and field discipline

The course assumes participants can interpret operating, maintenance, safety, or performance information at work; it leaves out detailed equipment design and certification preparation.

Departments and Industries

The course supports departments and industries that manage asset-intensive operations.

- Upstream, midstream, refining, and petrochemical operations
- Utilities, power generation, and process manufacturing
- Operations, production, and control-room functions
- Maintenance, reliability, inspection, and integrity departments
- Process safety, risk, and performance teams
- Continuous-improvement and transformation offices

Learning Objectives

By the end of this course, participants will be able to:

- Build an operational excellence operating system
- Analyze process-safety barrier health
- Diagnose reliability and maintenance losses
- Use production constraint and loss tools
- Evaluate leading and lagging performance indicators
- Prioritize a field improvement roadmap

Course Agenda

Day 1: Frame the Excellence System

- Operational Excellence Purpose and Governance Map
- Asset Value, Risk, and Performance Alignment Matrix
- Operating Model Roles and Accountability Chart
- Management System Element Maturity Scale
- Asset Excellence Baseline Assessment Template

Day 2: Control Process Safety and Discipline

- Hazard, Barrier, and Consequence Bow-Tie Map
- IOGP Report 456 Barrier-Health Indicator Structure
- API RP 754 Four-Tier Indicator Framework
- Operating Envelope and Deviation Response Register
- Field Operating Discipline Verification Checklist

Day 3: Improve Reliability and Maintenance

- Asset Criticality Ranking Matrix
- Failure Mode and Effect Screening Method
- Preventive and Predictive Maintenance Decision Tree
- Maintenance Work Management Flow Board
- Reliability Loss and Bad-Actor Pareto Analysis

Day 4: Manage Production and Performance

- Production Constraint and Bottleneck Map
- Availability, Utilization, and Rate Loss Bridge
- Leading and Lagging KPI Selection Matrix
- Tiered Performance Review Dashboard
- Improvement Initiative Prioritization Grid

Day 5: Practice Asset Excellence

- Suggested Exercise: Assess an Operating System Baseline
- Suggested Exercise: Review a Barrier-Health Scenario
- Suggested Exercise: Diagnose a Reliability Loss Pattern
- Suggested Exercise: Build a Tiered Performance Review
- Capstone Exercise: Present an Asset Excellence Operating Book

Practical Exercises

The course uses suggested activities to turn asset evidence into coordinated operating decisions.

- Suggested activity: map governance, risks, barriers, and accountabilities for an operating asset.
- Suggested activity: compare maintenance, reliability, and production-loss evidence to identify priority causes.
- Suggested activity: select leading and lagging indicators for a tiered performance dashboard.
- Suggested activity: create a sequenced improvement roadmap with owners, measures, and review points.

FAQs

Who suits oil and gas operational excellence systems training, and what does it assume?

Operations, asset, reliability, process-safety, improvement, and performance teams suit the training. It assumes participants can interpret routine operational evidence and contribute to cross-functional decisions.

How does oil and gas operational excellence differ from general quality management training?

Oil and gas operational excellence integrates process safety, operating discipline, production, maintenance, reliability, and asset performance. General quality management training concentrates more broadly on process consistency, customer requirements, and quality-system practices.

Which indicators support oil and gas operational excellence?

Leading indicators track control health and preventive activity, while lagging indicators show events, losses, failures, and outcomes. A balanced set links field controls with asset-level performance.

How is asset reliability connected to operational excellence?

Asset reliability connects equipment criticality, failure behavior, maintenance execution, operating conditions, and production consequences. This evidence helps teams prioritize work that protects safety, availability, and value.

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What is an operational excellence field assessment?

An operational excellence field assessment compares actual practices, controls, evidence, and results with the intended operating system. Findings become prioritized actions rather than isolated observations.

Conclusion

Participants take an Asset Excellence Operating Book back to their organization. It combines the operating-system baseline, barrier-health review, reliability diagnosis, production-loss bridge, KPI dashboard, and improvement roadmap. Teams can use it to align field routines and management reviews around shared evidence, owners, priorities, and measures.

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