Best Practices in Surface Production Operations Management Training Course

Professional Development Training Course Outline

Category	Oil and Gas	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In the dynamic and complex **oil and gas industry**, mastering **surface production operations** is crucial for maximizing efficiency, ensuring safety, and achieving operational excellence. Best Practices in Surface Production Operations Management Training Course is designed to equip professionals with the **advanced knowledge** and **practical skills** needed to optimize every stage of the surface production process, from fluid separation to final product transportation. Participants will gain actionable insights into **integrated asset management**, **advanced process control**, and **data-driven decision-making** to enhance productivity and profitability.

This course goes beyond theoretical concepts, focusing on real-world applications and **industry standards** . Through a blend of expert-led instruction, interactive workshops, and **practical case studies**, you will learn to implement **robust maintenance strategies**, mitigate operational risks, and ensure **regulatory compliance**. By the end of this program, you will be proficient in **troubleshooting complex issues**, **optimizing process workflows**, and leading high-performing teams to achieve sustainable, safe, and cost-effective surface production operations.

Programme Curriculum

Best Practices in Surface Production Operations Management Training Course

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Course Duration

5 days

Course Objectives

Upon completion of this course, participants will be able to:

- Master **surface production optimization** techniques.
- Implement **advanced process control** and automation.
- Enhance **oil and gas fluid separation** efficiency.
- Develop robust **equipment integrity management** plans.
- Apply **real-time data analytics** for performance monitoring.
- Mitigate risks through **proactive safety management systems**.
- Ensure full **environmental regulatory compliance**.
- Conduct effective **production allocation and reconciliation**.
- Troubleshoot and resolve **complex operational issues**.
- Leverage **digital transformation** in production facilities.
- Manage **integrated production systems** and workflows.
- Apply **Lean and Six Sigma methodologies** for continuous improvement.
- Optimize **hydrocarbon processing** from wellhead to pipeline.

Organizational Benefits

- Streamlines processes and reduces bottlenecks, leading to higher throughput and reduced downtime.
- Strengthens the safety culture and ensures adherence to stringent HSE and environmental regulations, minimizing legal and financial risks.
- Extends the lifespan of critical equipment through effective maintenance and integrity programs, lowering capital expenditure.
- Increases revenue by optimizing production rates, minimizing waste, and improving overall cost management.
- Develops a highly skilled and knowledgeable team capable of tackling complex challenges and driving innovation.

Target Audience

- Production Engineers
- Operations Supervisors and Managers
- Facility Engineers
- Maintenance and Reliability Professionals
- HSE (Health, Safety, and Environment) Officers

- Field Technicians and Operators
- Process Engineers
- Asset and Team Managers

Course Modules

Module 1: Fundamentals of Surface Production Systems

- Overview of the integrated production system from reservoir to sales.
- Understanding the role of key surface facilities: separators, heaters, and storage.
- Fluid properties and their impact on production workflows.
- Introduction to hydrocarbon processing and conditioning.
- **Case Study**: Analyzing a multi-stage separation system to improve efficiency in a major offshore platform.

Module 2: Equipment Integrity and Maintenance Best Practices

- Implementing preventive, predictive, and condition-based maintenance strategies.
- Corrosion prevention and monitoring techniques for pipelines and vessels.
- Troubleshooting common failures in rotating and static equipment.
- Applying reliability-centered maintenance (RCM) principles.
- **Case Study**: A major pipeline failure averted through a predictive maintenance program using vibration analysis and thermal imaging.

Module 3: Production Optimization and Debottlenecking

- Techniques for enhancing production rates and minimizing downtime.
- Using data analytics and real-time monitoring for performance tracking.
- Identifying and resolving process bottlenecks and flow restrictions.
- Strategies for artificial lift and flow assurance.
- **Case Study**: A process debottlenecking project at a gas processing plant, resulting in a 15% increase in throughput.

Module 4: Safety, Health, and Environmental (HSE) Management

- Implementing robust process safety management (PSM) protocols.
- Hazard identification and risk mitigation in production facilities.
- Environmental compliance and spill prevention strategies.
- Emergency response planning and drills.
- **Case Study**: A facility's successful implementation of a new safety protocol that significantly reduced the number of minor incidents.

Module 5: Production Allocation, Measurement, and Metering

- Principles of production accounting and fluid measurement.
- Types of metering systems and their applications.
- Techniques for production allocation and data reconciliation.
- Ensuring accuracy for fiscal and operational metering.
- **Case Study**: Overcoming challenges in accurately allocating production volumes from multiple wells to a central facility.

Module 6: Digital Transformation in Surface Operations

- Leveraging IoT, automation, and SCADA systems for enhanced control.
- Introduction to machine learning and AI for predictive maintenance.
- Implementing digital twins for facility simulation and optimization.
- The role of data visualization dashboards for informed decision-making.
- **Case Study**: How a company utilized a digital twin to optimize its entire production workflow, from wellhead to custody transfer.

Module 7: Cost Management and Operational Excellence

- Strategies for reducing operational expenditure (OPEX).
- Applying Lean and Six Sigma principles to eliminate waste.
- Establishing key performance indicators (KPIs) for continuous improvement.
- Cost-benefit analysis of new technologies and upgrades.
- **Case Study**: A cost-reduction initiative through a successful Lean Six Sigma project, which cut maintenance costs by 20%.

Module 8: Integrated Asset Management and Project Planning

- Holistic approach to managing a production asset's lifecycle.
- Planning and execution of brownfield and greenfield projects.
- Stakeholder management and cross-functional collaboration.
- Risk assessment and mitigation for major projects.
- **Case Study**: A successful brownfield project to integrate new equipment into an existing facility without disrupting ongoing operations.

Training Methodology

This program employs an **interactive, hands-on methodology** to ensure maximum knowledge retention and practical skill development. The training will be conducted through a combination of:

- Expert-Led Lectures: Clear and concise presentations on core concepts.
- Interactive Workshops: Group exercises and problem-solving sessions.
- Practical Case Studies: Analysis of real-world scenarios and challenges.
- Group Discussions and Brainstorming.
- Q&A Sessions: Direct interaction with the instructor to address specific queries.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com