# 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**

**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.

**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 |
|---|---|---|---|
| **21 Sep 2026** | 25 Sep 2026 | Online | $1,000 |
| **21 Sep 2026** | 25 Sep 2026 | Physical | $1,500 |
| **21 Sep 2026** | 25 Sep 2026 | Physical | $0 |
| **21 Sep 2026** | 25 Sep 2026 | Physical | $0 |
| **21 Sep 2026** | 25 Sep 2026 | Physical | $0 |
| **21 Sep 2026** | 25 Sep 2026 | Physical | $0 |
| **21 Sep 2026** | 25 Sep 2026 | Physical | $0 |
| **21 Sep 2026** | 25 Sep 2026 | Physical | $0 |

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

**Register Online Now**

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