

# Training Course on Management of Change (MOC) in Oil and Gas Operations

Professional Development Training Course Outline

|          |             |               |                         |
|----------|-------------|---------------|-------------------------|
| Category | Oil and Gas | Duration      | 10 Days                 |
| Base Fee | \$3,000 USD | Delivery Mode | Online / On-site Hybrid |

## Course Introduction

The Management of Change (MOC) process is a critical safety and operational protocol in the Oil & Gas (O&G) industry. As global energy demands rise and assets age, it's vital that changes to facilities, operations, and procedures are assessed, approved, and implemented effectively. Training Course on Management of Change (MOC) in Oil & Gas (O&G) Operations provides a structured and comprehensive understanding of MOC systems, incorporating regulatory compliance, industry standards, digital transformation, and real-world risk mitigation practices.

Participants will gain the skills and insights needed to implement, evaluate, and optimize MOC processes that are safe, compliant, and efficient. This training equips professionals to reduce operational risk, environmental hazards, and systemic failures, ensuring continuous improvement, workforce accountability, and safety culture enhancement in dynamic operational environments.

## Programme Curriculum

### Training Course on Management of Change (MOC) in Oil & Gas (O&G) Operations

#### Introduction

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### **Course Objectives**

1. Understand the fundamentals of MOC frameworks in upstream and downstream O&G operations.
2. Identify the regulatory requirements and compliance protocols for MOC.
3. Analyze risks associated with unauthorized changes in critical systems.
4. Learn to implement digital MOC workflows for efficient change tracking.
5. Promote safety culture transformation through structured change protocols.
6. Develop competency in managing engineering and process changes.
7. Understand the integration of asset integrity management with MOC.
8. Apply data-driven decision-making for evaluating proposed changes.
9. Recognize the impact of MOC on environmental health and safety (EHS).
10. Leverage incident management systems to inform future MOC practices.
11. Align MOC processes with ISO 45001 and API RP 1173 standards.
12. Conduct MOC audits and performance reviews effectively.
13. Learn from industry-specific case studies and root cause analysis.

### **Target Audience**

1. HSE Managers
2. Process Safety Engineers
3. Operations Supervisors
4. Compliance Officers
5. Maintenance Engineers
6. Facility Managers
7. Project Managers in O&G
8. Environmental & Risk Analysts

**Course Duration:** 10 days

### **Course Modules**

#### **Module 1: Introduction to MOC in Oil & Gas**

- Definition and scope of MOC
- Importance in safety-critical environments

- Legal and regulatory framework overview
- Historical failures due to poor MOC
- Key stakeholders in MOC process
- **Case Study:** BP Texas City Refinery Explosion

## **Module 2: Identifying Changes and Risk Assessment**

- Types of changes requiring MOC
- Hazard identification techniques (HAZOP, FMEA)
- Risk prioritization methods
- Criticality assessment tools
- Common oversight risks
- **Case Study:** Chevron Richmond Refinery Fire

## **Module 3: Regulatory Compliance and Industry Standards**

- OSHA PSM requirements for MOC
- API RP 75 and RP 1173
- ISO 45001 alignment
- Auditing and documentation
- International best practices
- **Case Study:** Deepwater Horizon Incident Review

## **Module 4: Developing a Structured MOC Workflow**

- MOC lifecycle phases
- Process mapping techniques
- Approval hierarchies and checklists
- Communication protocols
- Integration with digital tools
- **Case Study:** Shell MOC Digitalization Success

## **Module 5: Engineering and Technical Changes**

- Managing process modifications
- Evaluating impact on design parameters
- Documentation and drawing revisions
- Collaboration with engineering teams
- Contractor change control
- **Case Study:** ExxonMobil's Process Design Modification

## **Module 6: Organizational and Personnel Changes**

- Role-based access and change notification
- Skill assessments and training
- SOP updates
- Delegation and approval updates

- Change fatigue management
- **Case Study:** TotalEnergies – Change in Shift Structure

### **Module 7: MOC and Asset Integrity Management**

- Linking MOC with reliability programs
- Managing change in critical equipment
- Long-term asset health tracking
- Predictive maintenance considerations
- Lifecycle cost analysis
- **Case Study:** Statoil Asset Change Implementation

### **Module 8: Environmental and EHS Considerations**

- EIA and MOC interconnection
- Permitting and regulatory reporting
- Hazardous waste and emissions
- Community and environmental impact
- Emergency preparedness updates
- **Case Study:** Valero Benicia Plant Incident

### **Module 9: Digital MOC Platforms and Tools**

- Overview of leading MOC software
- Cloud-based vs on-premise platforms
- Integration with existing EHS tools
- Digital documentation and approvals
- Real-time analytics
- **Case Study:** Occidental Petroleum – MOC Digital Transition

### **Module 10: Training and Workforce Engagement**

- Creating MOC training programs
- Roles and responsibilities clarity
- Change communication plans
- Performance tracking and KPIs
- Incentivizing compliance
- **Case Study:** ENI's Employee Safety Transformation

### **Module 11: Emergency Preparedness and MOC**

- Linking emergency response with change events
- Revising emergency plans after MOC
- Drill and simulation requirements
- Regulatory submission timelines
- Post-MOC evaluation
- **Case Study:** Anadarko Fire Response Protocol Update

## **Module 12: Auditing and Evaluating MOC Programs**

- Internal and external audit processes
- Developing audit checklists
- Continuous improvement models
- Corrective action tracking
- Compliance scorecards
- **Case Study:** ConocoPhillips MOC Audit Program

## **Module 13: Leadership and Change Accountability**

- Executive sponsorship
- Ownership models for change
- Ethics and transparency
- Building change accountability culture
- Monitoring MOC maturity
- **Case Study:** Equinor's Safety Leadership Model

## **Module 14: Incident Learning and RCA Integration**

- Learning from near-misses and incidents
- Integrating Root Cause Analysis with MOC
- Preventative action frameworks
- Capturing lessons learned
- Sharing knowledge organization-wide
- **Case Study:** Marathon Petroleum RCA-MOC Linkage

## **Module 15: Final Project & Certification Assessment**

- Application of MOC principles
- Individual/Group project presentations
- Real-world scenario evaluation
- Feedback and performance review
- Final examination
- **Case Study:** Customized Industry Simulation

## **Training Methodology**

- Interactive instructor-led sessions
- Real-world case studies and scenario analysis
- Hands-on exercises and group activities
- Access to digital tools and templates
- Continuous feedback and post-training assessment
- Certification of completion and knowledge evaluation

**Register as a group from 3 participants for a Discount**

Send us an email: [info@fineskilltrainingcenter.org](mailto: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

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

**Register Online Now**

Email: [info@fineskilltrainingcenter.com](mailto:info@fineskilltrainingcenter.com) | Website: [www.fineskilltrainingcenter.com](http://www.fineskilltrainingcenter.com)