Training Course on Advanced Maintenance Management

Professional Development Training Course Outline

Category	Development	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s fast-evolving industrial landscape, the role of maintenance management has become more crucial than ever. Organizations aiming to reduce downtime, extend equipment life, and improve operational efficiency must adopt advanced maintenance strategies to remain competitive. Training Course on Advanced Maintenance Management is designed to equip professionals with the tools, technologies, and techniques needed to implement predictive maintenance, optimize asset performance, and lead high-performance maintenance teams.

This comprehensive training covers cutting-edge maintenance technologies, such as CMMS (Computerized Maintenance Management Systems), IoT-based monitoring, RCM (Reliability-Centered Maintenance), and data-driven decision making. Participants will gain hands-on experience and actionable insights to transition from reactive to proactive maintenance, ensuring cost-effective asset management and long-term sustainability.

Programme Curriculum

Training Course on Advanced Maintenance Management

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Course Objectives

1. Understand the fundamentals of proactive maintenance management.
2. Learn to implement predictive maintenance techniques using real-time data.
3. Master the use of Computerized Maintenance Management Systems (CMMS).
4. Apply Root Cause Analysis (RCA) to eliminate recurring failures.
5. Improve asset lifecycle management through strategic planning.
6. Develop skills in Total Productive Maintenance (TPM).
7. Utilize condition-based monitoring tools effectively.
8. Enhance team performance through maintenance leadership and supervision.
9. Integrate Industrial IoT (IIoT) for smart asset tracking.
10. Optimize operations through maintenance cost reduction strategies.
11. Develop effective maintenance schedules and KPIs.
12. Learn Lean maintenance principles to eliminate waste.
13. Strengthen decision-making with data-driven maintenance analytics.

Target Audience

1. Maintenance Managers
2. Reliability Engineers
3. Plant Supervisors
4. Asset Managers
5. CMMS Coordinators
6. Facilities Engineers
7. Industrial Operations Professionals
8. Engineering Consultants

Course Duration: 10 days

Course Modules

Module 1: Introduction to Advanced Maintenance

- Evolution of maintenance practices
- Importance of maintenance in modern industry

- Reactive vs. proactive maintenance
- Key terminology and standards
- Future trends in maintenance

Module 2: Maintenance Planning & Scheduling

- Work order planning process
- Gantt charts and backlog management
- Priority setting techniques
- Long-term and short-term scheduling
- Using CMMS for planning

Module 3: Computerized Maintenance Management Systems (CMMS)

- CMMS functions and features
- Vendor selection criteria
- Integration with ERP systems
- Reporting and analytics
- CMMS implementation strategies

Module 4: Predictive & Condition-Based Maintenance

- Vibration and infrared analysis
- Thermography and oil analysis
- Monitoring tools and sensors
- Predictive analytics
- Failure pattern recognition

Module 5: Reliability-Centered Maintenance (RCM)

- RCM principles and logic
- Functional failure analysis
- Criticality assessment
- Developing RCM-based plans
- Implementation success factors

Module 6: Root Cause Failure Analysis (RCFA)

- RCFA tools (5 Whys, Fishbone, etc.)
- Event mapping and fault trees
- Data collection and validation
- Solution development
- Long-term problem elimination

Module 7: Total Productive Maintenance (TPM)

- TPM pillars and practices
- Autonomous maintenance
- OEE (Overall Equipment Effectiveness)

- Cross-functional teams
- TPM success stories

Module 8: Asset Lifecycle Management

- Asset acquisition to retirement
- Asset health indicators
- Replacement vs. repair decisions
- Capital planning
- Performance optimization

Module 9: Maintenance Cost Control

- Cost tracking tools
- Budgeting strategies
- ROI on maintenance activities
- Reducing hidden costs
- Lifecycle cost analysis

Module 10: Lean Maintenance Practices

- Waste identification in maintenance
- 5S implementation
- Kaizen in maintenance
- Standard work documentation
- Lean tools for reliability

Module 11: Maintenance KPIs & Performance Measurement

- Establishing SMART KPIs
- MTTR, MTBF, and availability
- Performance dashboards
- Real-time reporting
- Benchmarking practices

Module 12: Industrial IoT in Maintenance

- Sensors and smart devices
- Real-time asset monitoring
- Predictive analytics platforms
- Cloud integration
- Cybersecurity in IIoT

Module 13: Maintenance Strategy Development

- Aligning maintenance with business goals
- Risk-based maintenance
- Maintenance maturity models
- Change management

- Continuous improvement

Module 14: Maintenance Leadership & Team Management

- Leadership styles and influence
- Training and competency development
- Team performance metrics
- Communication strategies
- Conflict and stress management

Module 15: Case Studies & Practical Applications

- Industry-specific examples
- Lessons from failures
- Digital transformation success
- Best practices benchmarking
- Capstone project and presentation

Training Methodology

- Interactive lectures
- Case studies
- Real-life scenarios
- Workshops
- Digital tools will be used to ensure immersive learning and immediate practical application.

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	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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

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