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Course Name

Vehicle Maintenance Planning

Sector Name

Maintenance & Reliability Management

Document Type

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Vehicle Maintenance Planning

Course Introduction

An effective vehicle maintenance program is essential for ensuring fleet reliability, operational continuity, and cost-efficient transportation services. Rather than reacting to breakdowns, organizations are increasingly adopting structured maintenance planning approaches that improve vehicle availability, extend asset life, reduce repair costs, and enhance safety. Successful vehicle maintenance planning integrates preventive maintenance, condition monitoring, resource scheduling, maintenance performance analysis, and continuous improvement to keep vehicles operating at peak efficiency throughout their service life.

Designed by **Boost Consulting & Training**, this comprehensive program equips participants with the knowledge, practical methodologies, and international best practices required to effectively plan, coordinate, and optimize vehicle maintenance activities. Participants will learn how to develop maintenance strategies, schedule maintenance programs, manage maintenance resources, improve vehicle reliability, analyze maintenance performance, and implement maintenance governance practices that support operational excellence.



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Vehicle Maintenance Planning

Target Audience

- ✓ Fleet Maintenance Managers
- ✓ Workshop Supervisors
- ✓ Fleet Coordinators
- ✓ Maintenance Engineers and Technicians
- ✓ General Services and Transportation Professionals
- ✓ Professionals responsible for vehicle maintenance planning

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Vehicle Maintenance Planning

Learning Objectives

- ✓ Understand the principles of vehicle maintenance planning and reliability management.
- ✓ Develop preventive and predictive maintenance plans for organizational vehicles.
- ✓ Coordinate maintenance schedules with operational requirements.
- ✓ Optimize maintenance resources, spare parts, and workshop activities.
- ✓ Measure maintenance performance and improve vehicle reliability.
- ✓ Apply governance practices that enhance maintenance quality, safety, and operational continuity.

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Vehicle Maintenance Planning

Course Outline

✓ Day 01

Building an Effective Vehicle Maintenance Program

Understanding Vehicle Reliability

- ✓ Factors affecting vehicle performance and reliability
- ✓ Common causes of vehicle failures
- ✓ Maintenance as a strategic operational function

Assessing Maintenance Requirements

- ✓ Vehicle condition assessment
- ✓ Manufacturer maintenance recommendations
- ✓ Determining maintenance priorities

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Vehicle Maintenance Planning

Course Outline

✓ Day 02

Developing Maintenance Strategies

Preventive & Predictive Maintenance

- ✓ Preventive maintenance scheduling
- ✓ Predictive maintenance concepts
- ✓ Condition-based maintenance techniques

Maintenance Resource Planning

- ✓ Planning workshop capacity
- ✓ Managing maintenance teams
- ✓ Spare parts forecasting and inventory coordination

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Course Outline

✓ Day 03

Scheduling and Executing Maintenance Activities

Maintenance Scheduling

- ✓ Developing maintenance calendars
- ✓ Coordinating maintenance with fleet availability
- ✓ Managing planned and emergency maintenance

Maintenance Execution

- ✓ Work orders and maintenance documentation
- ✓ Quality control during maintenance activities
- ✓ Post-maintenance inspections and vehicle release

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Course Outline

✓ Day 04

Improving Maintenance Performance

Maintenance Performance Analysis

- ✓ Mean Time Between Failures (MTBF)
- ✓ Vehicle downtime analysis
- ✓ Maintenance cost monitoring

Reliability Improvement

- ✓ Failure trend analysis
- ✓ Root cause investigation
- ✓ Continuous maintenance optimization

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Course Outline

✓ Day 05

Maintenance Governance & Future Technologies

Maintenance Governance

- ✓ Maintenance policies and standard operating procedures
- ✓ Compliance, safety, and maintenance auditing
- ✓ Documentation and maintenance records management

Future of Vehicle Maintenance

- ✓ Computerized Maintenance Management Systems (CMMS)
- ✓ Telematics and predictive maintenance technologies
- ✓ Artificial Intelligence for maintenance forecasting
- ✓ Developing a long-term vehicle maintenance strategy

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Oct. 11, 2027	Oct. 15, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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