MAINTENANCE STRATEGY DEVELOPMENT AND COST EFFECTIVE IMPLEMENTATION



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Introduction

Maintenance Strategy Development and Cost Effective Implementation examines how organizations choose the right maintenance approach for each asset and then deliver it at a cost the business can sustain. This Training Course covers criticality analysis, maintenance tactics selection, and planning and scheduling discipline. Participants study Reliability-Centred Maintenance (RCM), Failure Mode and Effects Analysis (FMEA), Total Productive Maintenance (TPM), Preventive and Predictive Maintenance, and ISO 55000 asset management principles. Furthermore, the programme connects strategy to execution through RCM labs, cost modelling exercises, and planning and scheduling simulations. As a result, delegates leave able to build a maintenance strategy that protects availability without overspending.

Maintenance Strategy Development and Cost Effective Implementation Course Objectives

- Define maintenance strategy and its link to asset performance.
- Apply criticality analysis to prioritise maintenance effort.
- Select tactics using RCM and FMEA logic.
- Distinguish preventive, predictive, and corrective maintenance.
- Apply TPM principles and operator-based maintenance.
- Build planning, scheduling, and work control routines.
- Manage spare parts, materials, and contractor support.
- Apply ISO 55000 asset management principles.
- Model maintenance cost and justify investment.
- Measure availability, reliability, and maintenance performance.

Course Methodology

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- Interactive workshops using real asset registers and maintenance files.
- Criticality analysis and RCM decision labs.
- FMEA and failure analysis exercises.
- Cost modelling and maintenance budget workshops.
- Planning and scheduling simulation with work control practice.
- Action planning that converts each session into a workplace commitment.

Who Should Take This Course

- Maintenance managers and superintendents.
- Reliability and maintenance engineers.
- Planners and schedulers.
- Asset and facilities managers.
- Production and operations managers.
- Stores and spare parts controllers.
- Consultants advising on maintenance improvement.

Maintenance Strategy Development and Cost Effective Implementation Course Outlines

Day 1: Maintenance Strategy Foundations

- Defining maintenance and its business purpose.
- Reactive, preventive, and proactive maintenance models.
- Asset criticality and consequence classification.
- Maintenance policy hierarchy and decision logic.
- ISO 55000 asset management principles.

- Roles, responsibilities, and governance.
- Building the maintenance strategy framework.

Day 2: Tactics Selection and RCM

- Reliability-Centred Maintenance methodology.
- Functions, functional failures, and failure modes.
- FMEA and criticality ranking.
- Selecting tactics: condition-based, scheduled, and run-to-failure.
- Age-related versus random failure patterns.
- Task selection and interval setting.
- Documenting the maintenance strategy for each asset class.

Day 3: Planning, Scheduling, and Work Control

- Work identification, prioritisation, and backlogs.
- Planning standards, job packs, and kitting.
- Scheduling: weekly, daily, and shutdown planning.
- Shutdown and turnaround management basics.
- Work order lifecycle and completion discipline.
- Key maintenance metrics: compliance, schedule attainment, and wrench time.
- Contractor and service provider coordination.

Day 4: Spares, Materials, and Reliability Engineering

- Spare parts classification and critical spares identification.
- Inventory policy, min-max, and reorder point setting.
- Obsolescence and material substitution management.

- Root cause failure analysis methods.
- Reliability improvement and defect elimination.
- Vibration, thermography, and condition monitoring basics.
- Equipment history and failure data management.

Day 5: Cost, Performance, and Continuous Improvement

- Maintenance cost structure and drivers.
- Budgeting, cost control, and cost per unit of output.
- Justifying maintenance investment and improvement projects.
- Performance dashboards and maintenance KPIs.
- TPM and operator-based maintenance practices.
- Continuous improvement and strategy review.
- Personal action plan and continuous improvement.

Conclusion

By successfully completing Maintenance Strategy Development and Cost Effective Implementation, participants will have acquired a practical command of criticality analysis, RCM-based tactic selection, planning and scheduling discipline, and maintenance cost control. They will know how to build a strategy that matches effort to asset criticality, run work control that gets jobs done as planned, and justify spend with availability and cost evidence. In addition, the course prepares delegates to eliminate recurring defects and improve reliability. As a result, they return to work ready to deliver maintenance that protects output at sustainable cost. Gentex Training Center delivers this Training Course with a practical, standards-based approach.

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FAQs for the Maintenance Strategy Development and Cost Effective Implementation course

Q1 What is the "Maintenance Strategy Development and Cost Effective Implementation" course about?

It is a five-day programme that explains how a maintenance strategy is chosen and delivered economically. It covers asset criticality, RCM and FMEA tactic selection, planning and scheduling, spares management, cost modelling, reliability improvement, and performance measurement.

Q2 What are the key benefits of the "Maintenance Strategy Development and Cost Effective Implementation" course?

Participants gain the ability to match maintenance effort to asset criticality, select tactics with RCM logic rather than habit, and control cost without eroding availability. They also learn to run planning and scheduling that improves compliance and to justify maintenance investment with real evidence.

Q3 What skills will I gain from the "Maintenance Strategy Development and Cost Effective Implementation" course?

Maintenance criticality analysis with consequence classification, RCM and FMEA-based tactic selection with interval setting, planning and scheduling with work control discipline, and maintenance cost modelling with reliability improvement and KPI reporting.

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Q4 What tools, methods, or standards are covered in the "Maintenance Strategy Development and Cost Effective Implementation" course?

The course covers reactive, preventive and proactive maintenance models, asset criticality and consequence classification methods, maintenance policy hierarchy and decision logic, ISO 55000 asset management principles, Reliability-Centred Maintenance methodology, function, functional failure and failure mode analysis, FMEA and criticality ranking, condition-based, scheduled and run-to-failure tactic selection, age-related versus random failure pattern analysis, task selection and interval setting, work identification, prioritisation and backlog management, planning standards, job packs and kitting, weekly, daily and shutdown scheduling, shutdown and turnaround management, work order lifecycle and completion discipline, maintenance metrics covering compliance, schedule attainment and wrench time, contractor and service provider coordination, spare parts classification and critical spares identification, inventory policy, min-max and reorder point setting, obsolescence and material substitution management, root cause failure analysis methods, reliability improvement and defect elimination, vibration, thermography and condition monitoring basics, equipment history and failure data management, maintenance cost structure and driver analysis, budgeting and cost per unit of output, maintenance investment justification, performance dashboard and KPI design, and Total Productive Maintenance and operator-based maintenance practices.

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Q5 How is the "Maintenance Strategy Development and Cost Effective Implementation" course applied in real-world practice?

Delegates apply it through asset criticality registers, maintenance strategy documents, RCM analyses, FMEA worksheets, maintenance task lists, planning job packs, schedules, backlog reports, shutdown plans, work order systems, critical spares lists, inventory policies, root cause analyses, reliability improvement plans, maintenance budgets, cost reports, and maintenance KPI dashboards. They also use it to brief operations leadership on reliability performance and to justify maintenance investment.