MERCURY

# Advanced Maintenance Strategy & Work Control Summit Conference

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# Advanced Maintenance Strategy & Work Control Summit Conference

## Introduction

This conference addresses core competencies in maintenance planning, scheduling, and work control, and frames them within business objectives and asset management. It explains how modern maintenance strategy links to operations and organizational performance. The program explores CMMS requirements, equipment classification, and documentation structures required for reliable work execution. Participants will study work order design, logistics planning, and resource estimation to preserve lead time and reduce backlog. It emphasizes practical methods for backlog control, weekly master scheduling, and project maintenance planning. The scope includes hands-on examples and frameworks that attendees can adapt immediately to their facilities.

## Targeted Groups

This Advanced Maintenance Strategy & Work Control Summit targets professionals seeking specialized knowledge and skills:

- Maintenance planners and schedulers.
- CMMS administrators and reliability engineers.
- Work control supervisors and operations managers.
- Asset managers and maintenance supervisors.
- Project maintenance coordinators and engineers.
- Supply chain and logistics planners.
- Quality and safety officers are involved in maintenance.

## Conference Objectives

Participants will achieve the following objectives by completing the Advanced Maintenance Strategy & Work Control Summit conference:

- Apply best-practice planning techniques to improve job preparation and readiness.
- Develop robust scheduling routines that reduce backlog and increase uptime.
- Integrate CMMS data into daily decision-making and resource allocation.
- Establish transparent work control processes to ensure safety and compliance.
- Use criticality and risk assessments to prioritize maintenance interventions.
- Enhance communication between operations and maintenance for timely execution.
- Apply productivity measures and KPIs to monitor performance and improvements.
- Plan resources and materials effectively to preserve lead time and reduce delays.
- Conduct maintenance audits and benchmarking exercises to identify improvement opportunities.
- Develop practical action plans to translate audit and benchmarking results into measurable gains.

## Targeted Competencies

Participants will gain the following competencies during the program:

- Master modern maintenance management concepts and terminology.

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- Design and implement effective maintenance strategies aligned with business goals.
- Develop competent work planning, scheduling, and control practices.
- Apply failure management and RCM-derived task selection methods.
- Use CMMS effectively to manage equipment and spare parts.
- Conduct maintenance audits and execute benchmarking studies.
- Interpret performance indicators and the maintenance balanced scorecard.
- Plan logistics, materials, and resource allocation with accuracy.
- Lead continuous improvement initiatives and implement measurable changes.
- Communicate maintenance objectives and results clearly to stakeholders.

## Studying Scenarios

In this training, participants will develop their skills through the analysis of the following scenarios:

- Planning a complex shutdown with resource-constrained teams.
- Resolving chronic backlog while preserving production uptime.
- Implementing predictive maintenance from limited condition-monitoring data.
- Benchmarking key processes against industry leaders to set targets.
- Designing a CMMS-driven work control process for daily operations.
- Conducting an internal audit to identify systemic improvement areas.
- Preparing a resource and materials plan to reduce lead times.

## Conference Content

### Unit 1: Modern Maintenance Management Practice in Perspective

- Equipment classification and identification.
- Maintenance practice in perspective.
- Maintenance in the business process.
- Evolution in maintenance management.
- The contribution of maintenance to the achievement of the business objectives.
- Maintenance strategy development process.
- The business objective.
- Business, operations, and maintenance are key performance areas.
- The maintenance objective.
- Roles and accountability.
- Equipment classification and identification.
- CMMS requirements.
- Functional location.
- Equipment type classification.
- Equipment identification.
- The part number and bill of materials.
- Documentation structures.
- Document identification and classification.

### Unit 2: Maintenance Policies and Logistics Planning

- Maintenance management policies.
- Equipment criticality grading.
- Job record policy.
- Job information requirements.
- Principles of work order design.

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- Maintenance work prioritization.
- Maintenance logistics planning.
- Logistic support analysis.
- Maintenance task detail planning.
- Maintenance work estimating.
- Maintenance levels.
- Support documentation.
- Support equipment.
- Personnel and organization.
- Competency development.

## Unit 3: Failure Management Programme Development

- Failure modes, effects, and consequences.
- Equipment functions and performance standards.
- Functional failures.
- Failure modes.
- Failure effects.
- Consequences of failure.
- Failure management policies.
- Age-related failure patterns.
- Random failure patterns.
- Routine restoration and discard tasks.
- Routine condition-based tasks.
- Types of condition-based tasks.
- Failure-finding tasks.
- The application of RCM in the development of failure management policies.
- Proposed routine maintenance tasks.
- Categorizing and structuring routine maintenance tasks.
- Corrective maintenance planning.
- Logistic requirements planning.
- Implementing failure management policies.

## Unit 4: Work Planning, Scheduling, and Control

- Definition of notifications, defects, and deviations.
- Notification process, roles, and principles.
- Prioritizing notifications.
- Weekly master schedule.
- Master schedule objectives.
- Categorize the outstanding workload.
- Determine resource availability.
- Determine the equipment non-utilization profile.
- Develop a draft master schedule.
- Conduct a master schedule review meeting.
- Final master schedule and implementation.
- Backlog management.
- Project maintenance management.
- Critical path analysis.
- Project schedule.
- Resource planning.
- Maintenance project plan.
- Schedule resources and materials.

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### Unit 5: Information and Performance Management

- Management and information.
- Information and control.
- Management levels and information.
- Performance indicators.
- Performance indicators.
- Workload performance indicators.
- Planning performance indicators.
- Effectiveness performance indicators.
- Cost performance indicators.
- Management reports.

## Final Insights & Key Takeaways

Participants will leave with a clear understanding of how to optimize maintenance planning, scheduling, and work control to enhance operational efficiency. They will implement best practices and measurable improvements within their organizations.