



**LIFE CYCLE  
INSTITUTE**



**LIFE CYCLE ENGINEERING • LIFE CYCLE ENGINEERING • LIFE CYCLE ENGINEERING**



**MAINTENANCE  
MANAGEMENT  
CERTIFICATION**

# Achieve your Maintenance Management Certification (MMC) from one of the country's top engineering schools.

Build and sustain a world-class Maintenance Program. You will learn practical skills that can be applied on the job right away, demonstrate your commitment to building a solid maintenance program, and increase your value to your organization.

This certification program will enable you to:

- Build and sustain a maintenance program
- Establish appropriate maintenance KPIs and visual management dashboard
- Select the optimum equipment maintenance strategy
- Implement work management strategies that improve asset availability and utilization
- Increase maintenance personnel productivity
- Build a problem-solving culture
- Manage an effective maintenance budget

To earn a Maintenance Management Certification (MMC), candidates must complete four courses and successfully pass the Maintenance Management Certification exam within three years.

Earn 9.5 CEUs.

Required courses:

- Managing Planning and Scheduling
- Maintenance Management Skills

Select two of the following electives:

- Maintenance Planning and Scheduling
- Predictive Maintenance Strategy
- Risk-Based Asset Management
- Root Cause Analysis
- Materials Management

## Who Should Attend

The Maintenance Management Certification is designed for maintenance managers and professionals responsible for building and sustaining a world-class maintenance program.

### Required Courses

## Maintenance Management Skills

### Learning Objectives

- Describe the roles and goals of a maintenance manager/supervisor
- List maintenance management critical success factors
- Practice techniques to effectively manage people performance
- Implement KPIs that drive desired results
- Apply budgeting tools and processes



**“ I have the appropriate tools and skill sets to push my company's maintenance program to become a world-class organization. ”**



## Managing Planning and Scheduling

### Learning Objectives

- Develop an implementation plan to establish or transform a planning program
- Build a work management process flow chart and responsibility matrix
- Draft a work management program strategy: objectives, key performance measures, targets, reporting and monitoring methods
- Build performance management and development strategies for planning personnel

# Maintenance Management Certification Elective Courses

Candidates must take two electives



## Materials Management

- Identify effective materials management processes
- Implement effective inventory control and warehouse best practices
- Describe how a CMMS supports materials management
- Identify contributors to total cost of materials
- Define the standard set of materials management key performance indicators

## Predictive Maintenance Strategy

- Explain how predictive maintenance mitigates risk
- Describe PdM theory, application and safety factors
- Recognize visual inspection as a component of PdM
- Draft a predictive maintenance strategy
- Compare your current PdM program to best practices



## Risk-Based Asset Management

- Draft an asset management plan
- Describe asset management information required to manage risk
- List ways to extend the life of assets and evaluate their effectiveness
- Use FMEA to analyze risks and map control strategies
- List key internal and external asset management partners

## Root Cause Analysis

- Outline a 6-step root cause analysis process
- Outline triggers for RCA efforts
- Select and apply a range of RCA tools to solve different problems
- Use an A3 to manage and track activities



## Maintenance Planning and Scheduling

- Outline a proactive work management process
- Calculate work management performance metrics
- Develop a comprehensive "standard" job plan
- Apply work planning best practices
- Build a schedule using best practices

# Register for the Maintenance Management Certification

Visit [www.LCE.com/Institute](http://www.LCE.com/Institute) to access our class schedule and registration fees. You may also call us at 800-556-9589 or email [Education@LCE.com](mailto:Education@LCE.com).

Certification courses can be taken in any order and at any location, including at your site. You may register for all courses at once or one at a time. The exam can be scheduled once all courses are complete.

## Additional Life Cycle Institute Courses

- Predictive Maintenance Strategy
- Planning for Shutdowns, Turnarounds and Outages
- Reliability Engineering Excellence
- Maintenance Planning and Scheduling Online
- Reliability Centered Maintenance Online
- MRO Online
- Reliability Excellence for Managers
- Reliability Excellence Fundamentals
- SMRP Body of Knowledge Guided Study
- Materials Management

## Life Cycle Institute: Changing Behavior to Produce Results®



Life Cycle Institute helps clients to reduce risk, improve performance and engage employees by changing behavior to produce results. The Institute is the human performance practice at Life Cycle Engineering (LCE), a 40-year-old engineering solutions company, and the leader in asset management and Reliability Excellence®.



LCE emphasizes a risk-based asset management approach to reliability based on international asset management standards. LCE's Asset Management System Framework confirms proper controls are in place and reliability analysis is used to promote continuous improvement.



LCE's Reliability Engineering solutions and competency-building programs help clients prioritize resources for their most critical assets, design an infrastructure for continuous improvement, and align asset life cycle management with corporate objectives.

