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

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. At least two classes must be taken at the university granting your certification.

You will earn a total of 8.4 CEUs for all four courses taken.

Required courses:
- Maintenance Management Skills
- Managing Planning and Scheduling

Select two of the following electives:
- Maintenance Planning and Scheduling
- Predictive Maintenance Strategy
- Risk-Based Asset Management
- Root Cause Analysis
- Materials Management

The MMC exam can be taken online from your home or office at a self-selected time.

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

**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

I have the appropriate tools and skill sets to push my company’s maintenance program to become a world class organization.

**Reliability Engineering Certification (REC)**

Secure knowledge and credentials from one of the world’s largest and most respected engineering colleges.

With the Reliability Engineering Certification (REC), reliability engineers will be well-equipped to reduce risk and increase the value that assets deliver to the triple bottom line.

The REC builds and certifies individual competency in reliability engineering and asset management. Successful candidates will be able to apply reliability engineering to build asset management programs that are consistent with ISO 55000 Asset Management standards.

Participants learn how to:
- Create Asset Management Plans that comply with ISO 55000
- Build and sustain a strategic reliability engineering program
- Prepare control strategies that reduce risk and improve utilization
- Design predictive maintenance strategies and programs
- Establish a root cause analysis program

The REC requires completion of four three-day courses*, and documented application of reliability engineering in the form of a work product. Courses include:
- Reliability Engineering Excellence
- Risk-Based Asset Management
- Predictive Maintenance Strategy
- Root Cause Analysis

You will earn a total of 8.4 CEUs for all four courses.

*At least two courses must be taken at the university granting the certification.

**Reliability Engineering Certification Work Product**

This requirement demonstrates reliability engineering competency through documented workplace application.

The work product includes:
1. Criticality ranking
2. FMEA
3. RCA
4. Proposed predictive maintenance
5. Presentation and defense

Who Should Attend
The REC is for people who are responsible for improving asset and capacity reliability, decreasing repetitive failures, building sustainable predictive maintenance programs, and creating a culture of continuous improvement.

REC recipients saw significant financial benefits by completing the work product.

An automobile parts supplier saw a 60% reduction in downtime.
A candy manufacturer identified and eliminated a failure, saving the company $325,000 in parts alone over a six-year period.
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 to access our class schedule and registration fees. You may also call us at 800-556-9589 or email 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.