

**CHARTERED**   
INSTITUTE OF PROFESSIONAL CERTIFICATIONS

# CERTIFIED PREVENTIVE MAINTENANCE LEADER™

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## CPM™

**Fully Accredited  
By:**

Chartered Institute of  
Professional Certifications

CPD  
Certification Service



# PROGRAM OVERVIEW



**Preventive Maintenance is no longer an option**—it is a core requirement for ensuring world class reliable asset performance. Studies show that maintenance-related failures account for nearly **20% of total operating costs** in asset-intensive industries and organizations with structured preventive maintenance programs can achieve up to **25% higher operating margins and extend asset life by 40%**.

This certified program is built to equip maintenance leaders with the strategic insight, technical expertise, and managerial capability needed to implement, and lead high-performing preventive maintenance systems. You will develop deep expertise in **risk-based asset prioritization, predictive and condition-based maintenance technologies, reliability-centered maintenance (RCM), and failure mode and effects analysis (FMEA)**. By blending rigorous frameworks with practical application, you will discover how to build preventive strategies that align with organizational objectives and deliver measurable performance improvements.

Throughout the program, you will learn how to **construct robust maintenance schedules, apply condition monitoring and maintenance data analytics for early fault detection, and optimize spare-parts planning** to reduce downtime. You will also master the effective deployment of **Computerized Maintenance Management System (CMMS) platforms, the design of maintenance KPIs that drive accountability, regulatory and safety compliance, and continuous improvement through root-cause analysis and reliability engineering**. By the end of the program, you will be fully prepared to lead preventive maintenance initiatives that reduce disruptions, maximize asset performance, and strengthen long-term operational resilience.

Upon completing the program and passing the Chartered exam, you will attain the **Certified Preventive Maintenance Leader (CPM™)** designation. This CPM™ credential positions you as a strategic leader capable of guiding organizations toward reliability excellence, unlocking career advancement, and elevating your professional credibility in the maintenance and reliability field.

## ACCREDITATIONS



4.8




4.6





# KEY SKILLS YOU WILL GAIN

## From This Program



**PREVENTIVE MAINTENANCE FRAMEWORKS  
MAINTENANCE STRATEGY DESIGN  
ASSET RELIABILITY MANAGEMENT  
MAINTENANCE PLANNING AND SCHEDULING**

**CMMS UTILIZATION AND CONFIGURATION  
MAINTENANCE KPI MEASUREMENT  
ASSET CRITICALITY ANALYSIS  
CONDITION BASED MAINTENANCE TECHNIQUES**

**RELIABILITY CENTERED MAINTENANCE  
PRINCIPLES  
FAILURE MODE AND EFFECTS ANALYSIS  
ROOT CAUSE ANALYSIS METHODOLOGIES**

**PREDICTIVE MAINTENANCE FUNDAMENTALS  
MAINTENANCE RISK ASSESSMENT  
SPARE PARTS AND INVENTORY OPTIMIZATION  
MAINTENANCE COST CONTROL  
DOWNTIME AND AVAILABILITY ANALYSIS**

**MAINTENANCE COMPLIANCE STANDARDS  
MAINTENANCE DOCUMENTATION AND  
REPORTING**

# YOUR FACULTY DIRECTOR



## Lou Friscoe

### Distinguished Preventive Maintenance and Asset Reliability Leader

Lou Friscoe is a highly accomplished operations and maintenance leader with over two decades of hands-on experience spanning preventive maintenance, asset management, operational excellence, and large-scale facilities operations. He is the Founder of E&E Ops LLC, where he helps organizations **design and execute streamlined maintenance and operations strategies that deliver measurable performance, reliability, and cost outcomes.**

Lou is also a **Professor in the Department of Industrial Engineering** for the Master of Science in Operations Management program, where he teaches Maintenance Management, Strategic Management, Supply Chain Management, and Industrial Safety and Health Regulations. His academic work is firmly grounded in real-world practice, integrating LEAN, Six Sigma, ERP systems, and reliability-based maintenance principles.

Previously, Lou held **senior leadership roles overseeing operations and maintenance for hundreds of government and defense facilities nationwide**, managing multi-site teams, complex maintenance portfolios, and mission-critical assets. A U.S. Navy veteran and former Maintenance Control Leading Chief, he brings deep expertise in preventive maintenance leadership, safety-critical operations, and disciplined execution.



# OUR PARTICIPANTS

Over 70% of FORTUNE 500 Companies Have Attended Our Accredited Programs Before



# PROGRAM AGENDA

## MODULE 1: INTRODUCTION TO PREVENTIVE MAINTENANCE

Lesson 1: Definition and Purpose of PM  
Lesson 2: Core Principles of PM  
Lesson 3: Industry Examples of PM

## MODULE 2: PREVENTIVE MAINTENANCE STRATEGIES AND PLANNING

Lesson 1: Time-Based Maintenance  
Lesson 2: Usage-Based Maintenance  
Lesson 3: Hybrid Strategies

## MODULE 3: MAINTENANCE PLANNING AND SCHEDULING TOOLS

Lesson 1: Computerized Maintenance  
Management Systems (CMMS)  
Lesson 2: Gantt Charts and Work Planning  
Lesson 3: Checklists and SOPs

## MODULE 4: KEY PERFORMANCE INDICATORS (KPIs)

Lesson 1: Asset Reliability Metrics (MTBF,  
MTTR)  
Lesson 2: Compliance and Completion Rates  
Lesson 3: Cost and Downtime Metrics

## MODULE 5: CONDITION-BASED MAINTENANCE (CBM)

Lesson 1: Principles of CBM  
Lesson 2: Monitoring Techniques (Vibration,  
Thermography, Oil Analysis)  
Lesson 3: Implementation Challenges

## MODULE 6: RELIABILITY-CENTERED MAINTENANCE (RCM)

Lesson 1: Foundations of RCM  
Lesson 2: Criticality Analysis  
Lesson 3: RCM in Practice

## MODULE 7: SPARE PARTS AND INVENTORY MANAGEMENT

Lesson 1: Inventory Control Methods  
Lesson 2: Critical Spares Identification  
Lesson 3: Technology in Inventory  
Management

## MODULE 8: RISK MANAGEMENT IN PREVENTIVE MAINTENANCE

Lesson 1: Risk Identification and Assessment  
Lesson 2: Mitigation Strategies  
Lesson 3: Compliance and Safety Standards



# PROGRAM AGENDA



## **MODULE 9: PREDICTIVE MAINTENANCE INTEGRATION**

Lesson 1: Predictive Maintenance (PdM) vs.  
Preventive Maintenance (PM)

Lesson 2: Technologies for PdM (IoT, AI,  
Sensors)

Lesson 3: Integrating PdM into PM Programs

## **MODULE 10: MAINTENANCE WORKFORCE MANAGEMENT**

Lesson 1: Skills and Training

Lesson 2: Workforce Scheduling and  
Optimization

Lesson 3: Culture of Accountability

## **MODULE 11: CONTINUOUS IMPROVEMENT IN PREVENTIVE MAINTENANCE**

Lesson 1: Root Cause Analysis (RCA)

Lesson 2: Feedback Loops and Lessons  
Learned

Lesson 3: Lean Maintenance Practices

## **EXAMINATION**



# YOUR CHARTER DESIGNATION



Chartered Institute of Professional Certifications' programs are unique as they provide you with professional charter designations and marks that can be used across your lifetime once you have completed our programs.

Upon successfully attending this program, you will be awarded with the **Certified Preventive Maintenance Leader (CPM™)** designation. that can be used in your resume, CV and other professional credentials. This certification is industry-recognized with lifelong validity.

Globally recognized, the CPM™ certification affirms your expertise in leading structured, data driven, and risk aware preventive maintenance programs across asset intensive environments. It demonstrates your capability to design and manage preventive maintenance strategies, optimize asset reliability, oversee maintenance governance frameworks, and ensure safety and compliance across complex operational settings. Developed by **Chartered Institute of Professional Certifications**, the content of this program has been independently accredited by **CPD Certification Service** as adhering to the highest standards of continuing professional principles.

# ABOUT US

49,525

Business Leaders Have  
Attained Their Chartered  
Certifications Since 2009

390

Certified and Fully  
Accredited Programs

87%

Chartered Leaders Have  
Reported Career Promotions  
and Enhancements

## Chartered Institute of Professional Certifications

All of Chartered Institute of Professional Certifications programs are fully accredited programs. The professional charters and designations are trademarked credentials that can only be used by professionals who have completed and passed our accredited program. It is also independently accredited by CPD as adhering to the highest standards of continuing professional principles.

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# OUR FACULTY DIRECTORS

We Collaborate With  
Instructors From  
Renowned Institutions



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POLITICAL SCIENCE



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Business  
School**





# CONTACT US TODAY

We Thank You for Your Ongoing Support  
of Our Programs

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