

CHARTERED 
INSTITUTE OF PROFESSIONAL CERTIFICATIONS

CERTIFIED PREVENTIVE MAINTENANCE LEADER™

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



Eduardo Schumann

Global Authority in Operational Excellence & Predictive Maintenance

Eduardo Schumann is a distinguished global operations leader with over 35 years of professional expertise and **more than 25 years in executive leadership roles across industries** including mining, food & beverage, chemicals, pharmaceuticals, auto parts, consumer goods, pulp & paper, and energy.

Having worked across 31 countries and successfully delivered more than 200 maintenance projects, Eduardo is widely recognized as a thought leader in world-class preventive maintenance and operational excellence. He is the former **Global Maintenance Director of Kraft Heinz**, former **Maintenance Advisor for FrieslandCampina**, and **author of the World-Class Maintenance Playbook**. Eduardo brings deep expertise in preventive maintenance strategy, maintenance planning and scheduling, asset reliability, equipment criticality, and continuous maintenance improvement.

Throughout his career, Eduardo has consistently built and led high-performing, cross-functional teams that deliver measurable and sustainable improvements in global operations. His expertise lies in combining advanced technologies such as IoT, digital twins, and machine learning with proven management methodologies to help organizations **achieve world-class reliability, maintenance efficiency, and long-term competitive advantage**.

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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OF ECONOMICS AND
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Business
School**

**London
Business
School**



CONTACT US TODAY

We Thank You for Your Ongoing Support
of Our Programs

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