



Maintenance & Reliability Management

# CMMS Implementation, Evaluation and Optimization Techniques

# Course Introduction

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A Computerized Maintenance Management Systems (CMMS) usually consists of hardware solution and a software package that allows an organization to manage the maintenance of equipment and facilities. Use of a CMMS package should improve productivity, lower overall operating costs, and store valuable information about maintenance functions in an organization.

## **CMMS system**

This course will bring you knowledge about the basics, how to choose the proper CMMS system, how to run it and evaluate it, and how to proof it against failure. This course presents the basics of modern maintenance management methodologies as foundation of CMMS implementation. It will also present objectives, benefits and features of a Computerized Maintenance Management System (CMMS). Participants will learn how to develop system specifications for their application as well as how to justify, evaluate, implement, audit and optimize a CMMS. As an integral part of the course, real world exercises are included to help understand the material covered and to better apply course content at a future time.

## **Real benefits from a CMMS.**

This course will help to understand how this technology can help you to improve maintenance productivity, equipment quality and provide better service to other departments all while reducing the maintenance operations cost. Whether the participant implementing a CMMS or whether he already have a system that is not working optimally, this is a practical and hands-on course designed for key people in the team to ensure they are on the right track to gain real benefits from a CMMS.

# Target Audience

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- Facilities Engineer
- Facilities Engineering Manager
- Facilities Manager
- Facilities Specialist / Coordinator
- Health and Safety Engineer
- Maintenance Group Leader
- Maintenance Helper / Assistant
- Maintenance Manager
- Maintenance Superintendent
- Maintenance Supervisor

- Mechanical Reliability Engineer
- Network Reliability Engineer
- Operations and Maintenance Specialist
- Reliability Engineer

## Learning Objectives

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- Understand the Fundamentals and Basics of Maintenance Management.
- Turn Maintenance into a Profit Center and achieve benefits for the organizations.
- Identify Key Modules of CMMS and how to select the proper CMMS program.
- Identify Optional Features of CMMS and their Accessories.
- Understand how Advanced Technologies apply to CMMS
- Understand the Objectives, Features, and Benefits of CMMS
- Justify a CMMS and develop System Specifications
- Evaluate and Select then how to implement a CMMS

## Course Outline

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### • 01 DAY ONE

#### **Module (01) Modern Maintenance Management**

- 1.1 Introduction and Definitions
- 1.2 The Different Routes
- 1.3 The Maintenance Professionals Tool Box
- 1.4 Basics of Outsourcing
- 1.5 Basics of Statistics

#### **Module (02) Overview of CMMS**

- 2.1 CMMS Modules
- 2.2 Equipment Management
- 2.3 Preventive Maintenance (PM)
- 2.4 Labor Utilization

- 2.5 Planning/Scheduling
- 2.6 Vendor
- 2.7 Inventory Control
- 2.8 Purchasing and Budgeting
- 2.9 Additional features
- 2.10 Emerging technologies
- 2.11 Machine Replacement Analysis
- 2.12 Economic life of a new machine
- 2.13 Existing machine's economic life
- 2.14 Using Mobile in Conjunction with CMMS

## • 02 DAY TWO

### Module (03) Justification for CMMS

- 3.1 Roadblocks to CMMS Acquisition
- 3.2 Step-by-Step Process
- 3.3 Form a Team
- 3.4 Identify Problems with Present System
- 3.5 Determine Objectives, Features, and Benefits
- 3.6 Financial Analysis
- 3.7 Savings
- 3.8 Cost Estimates
- 3.9 Set up Key Performance Indicators (KPIs)

### Module (04) Specify, Evaluate and Select a CMMS

- 4.1 In-House Development
- 4.2 Purchase Ready-Made Software
- 4.3 Step-by-Step Process
- 4.4 Form a Team
- 4.5 Determine the Objectives
- 4.6 Identify the Hardware Alternatives
- 4.7 Develop the System Specifications

## • 03 DAY THREE

### Module (05) How to implement a CMMS

- 5.1 Why So Many CMMS Projects Fail
- 5.2 Step-By-Step for Implementing a CMMS Project
- 5.3 Form a Team
- 5.4 Management commitment

- 5.5 Prepare for change
- 5.6 Order software/hardware
- 5.7 Define scope of project
- 5.8 Planning
- 5.9 Training
- 5.10 Installation and configuration
- 5.11 Data Gathering
- 5.12 Data Entry
- 5.13 Follow up/monitoring
- 5.14 A Case Study: CMMS Implementation

## **Module (06) How to Audit/Optimize YOUR CMMS**

- 6.1 Introduction
- 6.2 How to Use This Audit
- 6.3 Audit Results
- 6.4 Conclusion
- 6.5 CMMS Survey

### **• 04 DAY FOUR**

## **Module (07) Turn Maintenance into a Profit Center**

- 7.1 The Maintenance Image
- 7.2 Cost Center versus Profit Center Approach
- 7.3 How to Turn Maintenance into a Profit Center
- 7.4 How can a CMMS help?
- 7.5 Profit-Driven Maintenance (PDM)

## **Module (08) Optimum Reliability Allocation**

- 8.1 Cost/Feasibility Functions
- 8.2 Determining Component Reliabilities
- 8.3 Specifying Component Reliabilities
- 8.4 Availability Definitions
- 8.5 Introduction of Maintainability

### **• 05 DAY FIVE**

## **Module (09) Advanced Simulation Options**

- 9.1 Adding Crews to the Analysis
- 9.2 Adding Spare part pools to the Analysis
- 9.3 Utilizing “Corrective” “Preventive” and Inspection Actions with associated Policies

# Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 21, 2025	April 25, 2025	5 days	4250.00 \$	UAE - Dubai
July 21, 2025	July 25, 2025	5 days	4950.00 \$	Spain - Madrid
Nov. 17, 2025	Nov. 21, 2025	5 days	4250.00 \$	UAE - Dubai
Nov. 16, 2025	Nov. 20, 2025	5 days	4250.00 \$	Oman - Muscat