

# Global Maintenance Management -CMRP

## PROGRAM

PROGRAM MANUAL

2025

.....



Effective & Efficient Maintenance

---

## About Us

### We Improve Maintenance

in industrial, construction , service organization.

By providing consultation and technical training for engineers and technicians.





## EXPERTISE AND INDUSTRY KNOWLEDGE

Experienced mechanical engineer and maintenance manager with 10+ years of expertise. With over 15 years of experience across 4 industries, I'm passionate about training and have educated 5000+ professionals globally in maintenance management, mechanical engineering, and pneumatic systems since 2017. Founder of METHAQ for Maintenance Consultation, dedicated to optimizing policies and reducing equipment failure costs.



## CONTINUOUS IMPROVEMENT CULTURE

METHAQ promotes a culture of continuous improvement within the maintenance department.

We help organizations establish processes for capturing employee feedback, implementing best practices, and fostering innovation.

By encouraging a mindset of continuous improvement, we support organizations in driving efficiency, effectiveness, and innovation within their maintenance practices.



# OUR SERVICES:

We improve Maintenance.

We provide a one-stop service for you.

Reducing difficulty and saving your time is our goal.

## CONSULTATION

- 1. Corrective Maintenance
- 2. Proactive Maintenance
- 3. Reverse Engineering projects
- 4. Power Saving projects

## TRAINING

- 1. Global Maintenance Management - CMRP program
- 2. SAP PM Module Configuration and Application
- 3. Mechanical Maintenance Essentials
- 4. Conflict Management
- 5. Pneumatic Systems
- 6. Hydraulic Systems
- 7. Bearing
- 8. TPM
- 9. RCM
- 10. RCFA
- 11. RAMS



## SPARE PARTS

How to order and supply it for you in the following:-

- 1. Mechanical
- 2. Pneumatic
- 3. Hydraulic
- 4. Tools
- 5. Maintenance Solutions



METHAQ.Maintenance.Consultant

marketing.team@methaq-maintenance.com

methaq-maintenance-mastery-consulting



CONTACT WITH US:

+2 01111 25 89 54

+2 0100 55 730 98



# TABLE OF CONTENTS

.....

Our content is  
divided into 15 chapters.  
Each part will be described.

01

## Maintenance & Asset Management

1. Business and management Strategy
2. Introduction to Asset Management
3. 10 Rights for Asset Management
4. Asset Life Cycle Phases
5. The complete Definition of  
Maintenance
6. D-I-P-F Curve
7. Failure Terminology
8. Maintenance Strategies and  
philosophies
9. Maintenance Leader Features
10. System breakdown structure
11. Corrective Actions & Preventive  
Actions
12. Wrench Time
13. Managing (Terms & Tools)

02

## Corrective Maintenance Policy

1. Implementation Steps
2. Procedure
3. Process Map
4. CM W/O
5. Skill Inventory
6. Failure code
7. Maintenance Record
8. Pivot table
9. Dynamic dashboard using  
power Bi



# TABLE OF CONTENTS

.....

Our content is  
divided into 15 chapters.  
Each part will be described.

**03**

## Root Cause Failure Analysis

1. Implementation Steps
2. Criticality Analysis
3. Pareto Principle
4. Pareto using Excel
5. Pareto using Minitab
6. Statistical process control
7. SPC using Minitab
8. Why-Why
9. Cause and Effect
10. Fault Tree analysis
11. Case Studies
12. Maintenance Management Workflow
13. Ranking Index for maintenance  
Expenditures RIME

**04**

## Preventive Maintenance Policy

1. Change Management
2. Terms and Definition
3. Time Based
4. Meter Based
5. PM W/O
6. CLIT Maps
7. Asset ID
8. Failure Finding
9. Quality Assurance for  
Maintenance Activities
10. Lubrication Fundamentals



# TABLE OF CONTENTS

.....

Our content is  
divided into 15 chapters.  
Each part will be described.

**05**

## Maintenance Planning and Scheduling

1. Maintenance Planning Overview
2. Work Management Process
3. Work Identification
4. Planning Principles
5. Scheduling Principles
6. Planner Roles
7. Scheduler Roles
8. Maintenance Cost
9. Cost Benefit Analysis
10. Maintenance Structure
11. Spare Parts Level Control Management
12. Roles and Responsibilities
13. Target Plan and cost Profile
14. Gantt Chart using Microsoft Project

**06**

## RAMS, OEE & TEEP

1. Definitions
2. Leading and Lagging KPI's
3. Availability ( inherent, achievable and operation)
4. Utilization
5. Overall equipment effectiveness OEE
6. Six Big Losses
7. Single Minute Exchange Die SMED
8. Total Effective Equipment Performance TEEP
9. Objective To Tactics



# TABLE OF CONTENTS

.....

Our content is  
divided into 15 chapters.  
Each part will be described.

**07**

Reliability Prediction

1. Reliability Terminology
2. Mean Life
3. Mean time between failure
4. Mean life to failure
5. Mean time to repair
6. Mean time to acknowledge
7. Mean Maintenance time
8. Mean time between maintenance
9. Mean down time
10. Current Equipment Reliability  
Expectations
11. New Equipment Reliability  
Expectations
12. Weibull analysis
13. Mortality Density
14. Hazard Rate
15. Mathematical Model using Minitab
16. Case Study

**08**

Condition Based  
Maintenance

1. Definitions
2. Implementation Steps
3. Fault detection chart
4. Vibration analysis
5. Oil Analysis
6. Temperature analysis
7. Chain Elongation
8. Case Studies



# TABLE OF CONTENTS

.....

Our content is  
divided into 15 chapters.  
Each part will be described.

09

## Reliability Centered Maintenance RCM

1. Definition
2. Management System
3. Criticality Analysis
4. RCM Team
5. Implementation Steps
6. System breakdown structure
7. System flow diagram
8. Functional block diagram
9. Equipment list
10. Failure mode effect analysis FMEA
11. Failure mode Effect and criticality analysis FMECA
12. Decision Logic

10

## Total Productive Maintenance TPM

1. Historical Background
2. Lean Manufacturing system
3. 7 waste +1
4. Six Sigma
5. PDCA & DMAIC
6. Kaizen Process
7. Autonomous maintenance Implementation steps
8. One point Lesson
9. Abnormality tag matrix



# TABLE OF CONTENTS

.....

Our content is  
divided into 15 chapters.  
Each part will be described.

11

## Business and Management Pillar.1

1. Overview of maintenance and reliability concepts
2. Importance of maintenance and reliability in asset management
3. CMRP certification overview and benefits
4. Strategic maintenance management
5. Maintenance and reliability metrics and KPIs
6. Financial principles in maintenance and reliability
7. Risk management and business impact analysis
8. Exams

12

## Manufacturing Process Reliability Pillar.2

1. Process reliability principles
2. Reliability- centered maintenance (RCM)
3. Total productive maintenance (TPM)
4. Failure modes and effects analysis (FMEA)
5. Exams



# TABLE OF CONTENTS

.....

Our content is  
divided into 15 chapters.  
Each part will be described.

13

Equipment Reliability  
Pillar. 3

1. Preventive and predictive maintenance strategies
2. Condition monitoring techniques
3. Root cause analysis (RCA)
4. Reliability engineering tools and techniques
5. Exams

14

Organization and  
leadership Pillar .4

1. Maintenance organization structure
2. Leadership and team management
3. Communication and collaboration in maintenance teams
4. Change management in maintenance and reliability
5. Exams



# TABLE OF CONTENTS

.....

Our content is  
divided into 15 chapters.  
Each part will be described.

15

## Work Management Pillar. 5

1. Work identification and planning
2. Work scheduling and execution
3. Maintenance workflow and process optimization
4. Computerized Maintenance Management Systems (CMMS)
5. Exams

## CMRP Exam Preparation

1. Review of key concepts and principles
2. Sample questions and practice exams
3. Test-taking strategies and tips
4. Q&A sessions for clarifying doubts
5. Simulation Exam



# Schedule Proposal

1.100 Training Hrs.

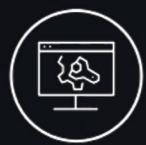
2.25 interactive Sessions Online by zoom or Offline in  
METHAQ Company

3.Windows Application for Session Review

4.Mobile Application Android and IOS

.....

Our content is  
divided into 15 chapters.  
Each part will be described.



---

# THANK YOU

---

FOR WATCHING