



# Maintenance and Reliability Masterclass (with CMRP exam)



+971 4 556 7171  
800 7100 (within UAE)



[www.meirc.com](http://www.meirc.com)



[meirc@meirc.com](mailto:meirc@meirc.com)

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## Why Attend

This guided study course provides Maintenance and Reliability professionals with an in-depth overview of the five pillars of the SMRP Body of Knowledge, along with the award-winning UK Model of Excellence for Maintenance. The course concludes with the opportunity to take the Certified Maintenance and Reliability Professional (CMRP) exam on the final day.

Moreover, the course enables participants to develop a strategy for outstanding maintenance and reliability performance, tools to improve reliability at equipment level, and an insight to the latest practices in planning, scheduling and control.

The Certified Maintenance and Reliability Professional standard is the leading accreditation for modern maintenance and reliability professionals. This is a top tier qualification which was established to set a consistent, recognized standard in industry. Furthermore, it is the only certification of its kind accredited by the American National Standards Institute (ANSI) and it follows the global standards of the Organization for Standards (ISO) for its accreditation process. Participants who succeed on the exam will be able to use and promote their awarded designation as "CMRP".

## Course Methodology

This is an interactive course. There are open question and answer sessions, regular group exercises and activities, videos, case studies as well as presentations on best practice and the fundamentals of reliability improvement. Participants have the opportunity to share examples from their own experience and work with the facilitator and other participants to develop actions for improvement.

## Course Objectives

By the end of the course, participants will be able to:

- Appreciate the structure, content and underlying principles of the SMRP Body of Knowledge
- Understand the Model of Excellence for Maintenance and how to use this to improve company profitability
- Develop effective methodologies to improve Manufacturing Process Reliability
- Describe the key aspects of improving reliability at equipment level
- Utilize leadership skills to achieve maintenance and reliability excellence
- Demonstrate best practice in Work Management, including the principles of managing work flow, planning and scheduling, and shutdown management

## Target Audience

This course is ideal for maintenance managers and reliability professionals. Experienced supervisors, planners, project engineers, operations managers, functional specialists, and those seeking to achieve the CMRP designation will also benefit from this course.

## Target Competencies

- Maintenance Management
- Reliability Excellence
- Work Flow Management
- Process Management
- Leadership

## Note

This course concludes with the opportunity to take the SMRP Certified Maintenance and Reliability Professional (CMRP) exam on the final day, at the course venue.

## Course Outline

- An introduction to the Model of Excellence
  - How maintenance has evolved
  - Sources of best practice and benchmarking options
  - The pitfalls of traditional maintenance practices
  - Understanding where money should be invested and where money tends to be wasted



- The importance of planning
- The relationship between fixed costs and maintenance performance
- A change in thinking
  - Away from cost reduction or reliability or safety
  - Towards cost reduction and reliability and safety
- The modern maintenance strategy and asset management
- How pace setters add value through maintenance innovation and integration with operating teams
  
- SMRP Body of Knowledge Pillar 1 - Business and Management
  - How to align maintenance with the unique requirements of any business
  - Developing a maintenance vision and a credible plan for delivering this
  - Launching and managing the Maintenance Improvement plan
  - Selecting and tracking Key Performance Indicators to track progress towards the vision
  - An overview of change management
    - Overcoming resistance
    - Processes and tools for managing change
    - Effective management of Human Factors
    - Identifying and satisfying stakeholders
    - Communication
  - Health, safety and environmental considerations
  
- SMRP Body of Knowledge Pillar 2 - Manufacturing Process Reliability
  - Understanding the relevant management processes for any asset and operation
    - Reliability Centred Maintenance
    - Lean and six-sigma
    - Total Productive Maintenance
    - The ideal reliability road map
  - Improving process performance
    - Cost, risk and value engineering
    - The principles of cost-effective maintenance investment
    - Management processes
    - Reliability improvement methodologies
  - Change Management for key processes
  - Auditing and assurance processes for compliance with reliability processes
  - Conforming with local legislation and relevant standards
  
- SMRP Body of Knowledge Pillar 3 - Equipment Reliability
  - Setting reliability targets at equipment level
  - Assessing and baselining present equipment performance
  - Analysis options to understand the underlying causes of inadequate equipment performance
    - Root Cause Failure Analysis
    - Weibull analysis
    - Criticality analysis
    - Failure Mode Effects and Criticality Analysis
  - Development of effective maintenance plans
    - Reactive
    - Preventive



- Predictive
  - Proactive
- Condition monitoring options for different equipment and failure modes
- A process to ensure new equipment reliability is at the required level
- Implementation of reliability plans for all equipment
  
- SMRP Body of Knowledge Pillar 4 - Organisation and Leadership
  - Developing an organisation that will support the reliability and maintenance strategies
  - Setting a reliability focused culture
  - The roles of personnel outside maintenance in reliability improvement and how to engage the right people in the right way
  - Assessing gaps in the organisation skills and the current capability vs that required
  - Competency management (training and developing personnel).
  - Leadership skills required to deliver full organisational performance
  - Setting a reliability focused culture
  - The roles of personnel outside maintenance in reliability improvement and how to engage the right people in the right way
  
- SMRP Body of Knowledge Pillar 5 - Work Management (The Maintenance Process)
  - Optimising the workflow process and CMMS system performance
    - Modern workflow management processes
    - Adjusting efforts to drive performance and Continuous Improvement
  - Identifying the correct scope of work
    - The work that is critical
    - Eliminating waste
  - Approval and prioritisation of work
  - Planning and work pack development for maximum efficiency
  - Scheduling work to meet targets and match resource plans
  - On Time In Full work execution
    - Tool time improvements
    - Controlling HSE
  - Recording work done, learning and improving future work
  
- SMRP Body of Knowledge Pillar 5 - Work Management (Major Activities and Supporting Services)
  - Planning and executing projects
  - Managing maintenance materials and stores
  - Use of computer-based technology
  - An introduction to major maintenance tasks, shutdowns and turnarounds



## Location & Date

1 - 5 Dec, 2019	English	Dubai	Double Tree Hilton – Business Bay Hotel
22 - 26 Mar, 2020	English	Dubai	Double Tree Hilton – Business Bay Hotel
12 - 16 Jul, 2020	English	Dubai	To be assigned
15 - 19 Nov, 2020	English	Dubai	To be assigned

## Fees: US\$ (including coffee breaks and a buffet lunch daily)

Per participant - 2019 US\$ 5100

Per participant - 2020 US\$ 5200

Fees + VAT as applicable

UAE Tax Registration Number 100239834300003



## Courses in Maintenance Planning and Asset Management

Dates	Course Name	Language	Location	Fees
1 - 5 Sep, 2019	Maintenance Planning, Scheduling and Control 	English	Dubai	US\$ 4900
15 - 19 Sep, 2019	 Equipment Failure Analysis and Prevention	English	Dubai	US\$ 4900
22 - 25 Sep, 2019	Big Data for Maintenance Strategies 	English	Dubai	US\$ 4500
22 - 26 Sep, 2019	Building Services Maintenance and Management 	English	Dubai	US\$ 4900
6 - 10 Oct, 2019	Mastering Maintenance Audits 	English	Dubai	US\$ 4900
13 - 17 Oct, 2019	Cost Effective Maintenance 	English	Dubai	US\$ 4900
20 - 24 Oct, 2019	Reliability Engineering Excellence 	English	Dubai	US\$ 4900
27 - 31 Oct, 2019	Value Engineering 	English	Dubai	US\$ 4900
3 - 7 Nov, 2019	Managing Shutdowns, Turnarounds and Outages 	English	Dubai	US\$ 4900
10 - 14 Nov, 2019	Certified Maintenance Planner 	English	Dubai	US\$ 5200
17 - 21 Nov, 2019	IAM Certificate in Asset Management 	English	Dubai	US\$ 5200
17 - 21 Nov, 2019	Facility Planning and Management 	English	Dubai	US\$ 4900
24 - 28 Nov, 2019	Advanced Maintenance Management 	English	Dubai	US\$ 4900
8 - 12 Dec, 2019	Certificate in Preventive and Predictive Maintenance 	English	Dubai	US\$ 5200
15 - 19 Dec, 2019	Maintenance Planning, Scheduling and Control 	English	Dubai	US\$ 4900
16 - 20 Feb, 2020	Cost Effective Maintenance 	English	Dubai	US\$ 4900
23 - 27 Feb, 2020	Maintenance Planning, Scheduling and Control 	English	Dubai	US\$ 4900
1 - 5 Mar, 2020	Advanced Maintenance Management 	English	Dubai	US\$ 4900
1 - 5 Mar, 2020	Building Services Maintenance and Management 	English	Dubai	US\$ 4900
8 - 12 Mar, 2020	IAM Certificate in Asset Management 	English	Dubai	US\$ 4900
8 - 12 Mar, 2020	Reliability Engineering Excellence 	English	Dubai	US\$ 4900
15 - 19 Mar, 2020	Managing Shutdowns, Turnarounds and Outages 	English	Dubai	US\$ 4900
29 Mar - 2 Apr, 2020	Facility Planning and Management 	English	Dubai	US\$ 4900
29 Mar - 2 Apr, 2020	Value Engineering 	English	Dubai	US\$ 4900
5 - 9 Apr, 2020	Certified Maintenance Planner 	English	Dubai	US\$ 4900
12 - 16 Apr, 2020	Certificate in Preventive and Predictive Maintenance 	English	Dubai	US\$ 4900
31 May - 4 Jun, 2020	Mastering Maintenance Audits 	English	Dubai	US\$ 4900



## Courses in Maintenance Planning and Asset Management

Dates	Course Name	Language	Location	Fees
7 - 10 Jun, 2020	Big Data for Maintenance Strategies <a href="#">PLUS</a>	English	Dubai	US\$ 4900
14 - 18 Jun, 2020	Maintenance Planning, Scheduling and Control <a href="#">PLUS</a>	English	Dubai	US\$ 4900
21 - 25 Jun, 2020	IAM Certificate in Asset Management <a href="#">PLUS</a>	English	Dubai	US\$ 4900
28 Jun - 2 Jul, 2020	Advanced Maintenance Management <a href="#">PLUS</a>	English	Dubai	US\$ 4900
9 - 13 Aug, 2020	Certificate in Preventive and Predictive Maintenance <a href="#">PLUS</a>	English	Dubai	US\$ 4900
23 - 27 Aug, 2020	Certified Maintenance Planner <a href="#">PLUS</a>	English	Dubai	US\$ 4900
27 Sep - 1 Oct, 2020	Value Engineering <a href="#">PLUS</a>	English	Dubai	US\$ 4900
4 - 8 Oct, 2020	Reliability Engineering Excellence <a href="#">PLUS</a>	English	Dubai	US\$ 4900
11 - 15 Oct, 2020	Cost Effective Maintenance <a href="#">PLUS</a>	English	Dubai	US\$ 4900
18 - 22 Oct, 2020	Building Services Maintenance and Management <a href="#">PLUS</a>	English	Dubai	US\$ 4900
25 - 29 Oct, 2020	Maintenance Planning, Scheduling and Control <a href="#">PLUS</a>	English	Dubai	US\$ 4900
1 - 4 Nov, 2020	Big Data for Maintenance Strategies <a href="#">PLUS</a>	English	Dubai	US\$ 4900
1 - 5 Nov, 2020	IAM Certificate in Asset Management <a href="#">PLUS</a>	English	Dubai	US\$ 4900
8 - 12 Nov, 2020	Advanced Maintenance Management <a href="#">PLUS</a>	English	Dubai	US\$ 4900
15 - 19 Nov, 2020	Facility Planning and Management <a href="#">PLUS</a>	English	Dubai	US\$ 4900
22 - 26 Nov, 2020	Certificate in Preventive and Predictive Maintenance <a href="#">PLUS</a>	English	Dubai	US\$ 4900
29 Nov - 3 Dec, 2020	Mastering Maintenance Audits <a href="#">PLUS</a>	English	Dubai	US\$ 4900
6 - 10 Dec, 2020	Managing Shutdowns, Turnarounds and Outages <a href="#">PLUS</a>	English	Dubai	US\$ 4900
13 - 17 Dec, 2020	Certified Maintenance Planner <a href="#">PLUS</a>	English	Dubai	US\$ 4900



# Meirc Timeline

