

## Workshop on

# "Maintenance & Reliability Professional" 3-Days Program

## About Us

We are the training providers and deals in Technical, HSEQ, Management and Soft Skills Training.

We have highly knowledgeable and experienced local & foreign subject matter experts. Our team is highly focused and provides the best support as per your requirements and needs.

We provide a platform from where you can add value in you teams. We are highly fascinated on the development of your Technical and Management Teams.

We can provide on-site and classroom training.

## About CMRP:

The Certified Maintenance & Reliability Professional (CMRP) program is the industry standard for validating maintenance, reliability, and physical asset management professionals' expertise, skills, and abilities. It is the only ISO-accredited credential for individuals working in the maintenance, reliability, and physical asset management fields. The CMRP, awarded by the Society of Maintenance and Reliability Professionals (SMRP), educates and assesses professionals in the areas of industry and management, manufacturing process reliability, equipment reliability, organization and leadership, and job management.

## Course Outline:

This training course will cover in detail the following mentioned topics in line with the CMRP curriculum defined by the "Society of Maintenance and Reliability Professionals" (SMRP).

### **BUSINESS AND MANAGEMENT**

This subject area describes the skills used to translate an organization's business goals into appropriate maintenance and reliability goals that support and contribute to the organization's business results.

- *Create Strategic direction and plan for M&R operations*
  - Provide vision and direction
  - Provide clear and measurable goals
- *Administer Strategic plan*
  - Develop support
  - Obtain approval and resources
  - Implement plans
- *Measure Performance*
  - Select key performance indicators
  - Track and report
- *Manage organizational plan*
  - Develop change management process
  - Communicate benefits
- *Communicate with stakeholders*
  - Provide management reports
  - Inform staff
  - Coordinate with operations
- *Manage environmental-health-safety risk*
  - Support community EHS goals
  - Support security goals
  - Conform to applicable regulations
  - Provide EHS training

### **MANUFACTURING PROCESS RELIABILITY**

This subject area relates maintenance and reliability activities to the manufacturing process of the organization to ensure that maintenance and reliability activities improve the manufacturing process.

- *Understand the applicable processes*
  - Document process flow
  - Understand process parameters
  - Understand quality specifications
- *Apply process improvement techniques*
  - Identify production losses
  - Establish continuous improvement process
- *Manage effects of change to processes and equipment*
  - Establish change protocol
  - Update documentation
  - Update procedures
- *Maintain processes per applicable standards and regulations*
  - Understand industry standards
  - Understand regulatory requirements
  - Ensure compliance

## EQUIPMENT RELIABILITY

This subject area describes two kinds of activities that apply to the equipment and processes for which the maintenance and reliability professional is accountable. First are those activities used to assess the current capabilities of the equipment and processes in terms of their reliability, availability, maintainability, and criticality. Second are the activities used to select and apply the most appropriate maintenance practices, so that the equipment and processes continue to deliver their intended capabilities in the safest and most cost-effective manner.

### - *Determine equipment reliability expectations*

- Identify reliability goals
- Identify process expectations

### - *Evaluate equipment reliability and identify improvement opportunities*

- Measure and track performance
- Determine best-demonstrated performance
- Analyze gaps

### - *Establish a strategic plan to assure reliability of existing equipment*

- Identify appropriate analysis techniques
- Develop maintenance strategy and tactics

### - *Establish a strategic plan to assure reliability of new equipment*

- Establish reliability specifications
- Establish acceptance criteria
- Obtain complete documentation

### - *Cost-justify selected plans for implementation*

- Conduct cost-benefit analysis
- Communicate benefits
- Obtain approval

### - *Implement selected plans to assure equipment reliability*

- Apply reliability strategies
- Establish organization structure
- Provide resources

### - *Review reliability of equipment and adjust reliability strategy*

- Assess key performance indicators
- Analysis deviations
- Identify relevant best practices
- Implement continuous improvement

## ORGANIZATION & LEADERSHIP

This subject area describes processes for assuring that the maintenance and reliability staff is the most qualified and best assigned to achieve the maintenance and reliability organization goals.

### - *Determine organizational requirements*

- Review strategic plan
- Determine required skills
- Determine required staffing levels

### - *Analyze organizational capability*

- Inventory staff skills
- Determine performance gaps

### - *Develop the organization structure*

- Establish reporting channels
- Determine roles
- Determine responsibilities
- Manage reorganization

### - *Develop personnel*

- Provide training
- Obtain needed expertise
- Delineate career paths

### - *Lead and manage people*

- Develop leadership skills
- Assess performance
- Promote a cooperative environment
- Facilitate communication

## WORK MANAGEMENT

This subject area focuses on the skills used to get the maintenance and reliability work done. It includes planning and scheduling activities, quality assurance of maintenance activities, stores and inventory management.

### - *Identify, validate, and approve work*

- Establish work identification processes
- Select and approve viable work

### - *Prioritize work*

- Develop formal prioritizing system
- Implement formal prioritizing system

### - *Plan work*

- Develop job package
- Including scope and procedures
- Including materials and tools
- Including testing

### - *Schedule work*

- Develop scheduling process
- Produce work schedule
- Balance resources
- Monitor backlog
- Manage break-in work
- Coordinate equipment access

### - *Execute work*

- Manage labor
- Manage material and services
- Control productivity
- Ensure EHS compliance

### - *Document work*

- Create post-work document process
- Record failure events and failure modes

### - *Analyze work and follow-up*

- Compare actual work with plan
- Identify variances

### - *Measure work management performance*

- Establish performance indicators
- Report schedule compliance and rework

### - *Plan and execute projects*

- Define scope
- Estimate project and life cycle costs
- Apply critical path methods
- Track progress
- Coordinate staffing

### - *Use information technologies effectively*

- Leverage capabilities of data historian
- Process control systems
- Condition monitoring software
- EAM, CMMS systems functionality

### - *Manage resources and materials*

- Control materials inventory
- Manage spares and equipment
- Establish MRO procurement process
- Manage contractors

The  
**HIPPOCAMPUS**  
Industrial Training & Consulting

### Contact Us

Phone: +92 310 265 8003

Email: [training@hippocampusgroup.com](mailto:training@hippocampusgroup.com)

Web: [www.hippocampusgroup.com](http://www.hippocampusgroup.com)