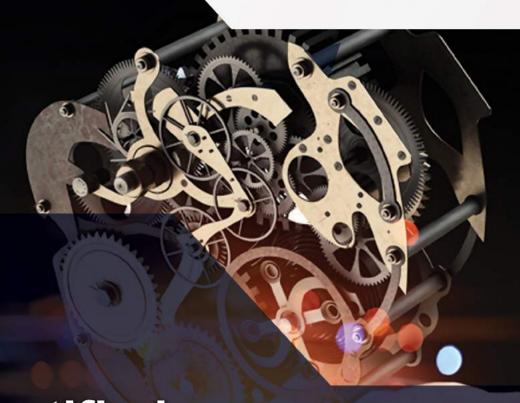




CMRP



Certified

Maintenance & Reliability

Professional







The Certified Maintenance & Reliability Professional (CMRP) program is the leading credential for validating the knowledge, skills and abilities of maintenance, reliability and physical asset management professionals. It is the only accredited certification following the ISO standards for individuals in maintenance, reliability and physical asset management. The exam tests real-world knowledge, including work management and leadership skills, to give individuals the tools to take the next step in their careers.





Why certify with CMRP?

- Many employers use the CMRP certification as a prerequisite for hiring employees.
- Four out of five CMRP-certified individuals recommend the CMRP as a means to advance an individual's career.
- The CMRP certification complies with ISO 17024, which is accredited by American National Standards Institute (ANSI).







- Course Key Topics

Pillar 1: Business & Management
 Create and manage a strategic direction and plan for reliability Select, track and report on key performance indicators Change management and communication

 Managing environmental, health and safety risks.









- Pillar 2: Manufacturing Process Reliability
 Understand process flow, parameters and quality specs
 Process improvement techniques- e.g. loss elimination
 and continuous improvement programs maintaining
 processes in accordance with standards and regulations.
- Pillar 3: Equipment Reliability
 Determining equipment reliability expectations and goals
 Evaluate equipment reliability and identify improvement
 opportunities Establish a plan to ensure equipment
 reliability for new and existing assets Cost justify plans
 for implementation.





Pillar 4: Organization & Leadership

Determining organizational competency and staffing requirements analyzing organizational capability and developing personnel Organizational structure, roles and responsibilities for reliability Leading and managing people.

Pillar 5: Work Management

How to identify, validate and approve maintenance and reliability work Maintenance and reliability work priority, planning and scheduling Planning and executing maintenance and reliability projects Using information technologies effectively Managing resources and materials effectively

- Course Duration



Include Simulator Exam
660 Questions







Dr. Yasser Shaban

- 1- Holds a Ph.D. in industrial engineering from Polytechnique which ranks first in Canada
- 2- His research field is Data-Driven maintenance, reliability, mechanical vibration.
- 3- He is CMRP Certified and SMRP member
- 4- Won the best research for 2014 from Society of Engineering and Management System (SEMS), USA.
- 5- Honored from Institute of Industrial Engineers
 (IIE) which is the biggest community of industrial
 engineers over the world and got the best paper award in
 Industrial & Systems Engineering Research Conference
 (ISERC 2014).
- 6- He is a member of the Institute of Industrial Engineers.
- 7- He has been teaching at Faculty of Engineering, Helwan University and Polytechnique, Montreal University, Canada during the last 14 years. He has been teaching many courses.
- 8- He has attended many courses at McGill, Concordia, Montreal.
- 9- His achievements are recognized by media and newspapers, and also by Nature Magazine which is a prominent interdisciplinary scientific journal and ranked as the world's most cited journal.





CMRP Course Content

| No. | Title | Contents | Pillar No. |
|-----|-----------------------------------|--|------------|
| 1 | Introduction | Orientation | |
| 2 | Work Management | Introduction Maintenance Understanding Failure | 5 |
| 3 | Equipment Reliability | 1. Introduction 2. Reliability 3. Failure Patterns 4. Bathtub curve | 3 |
| 4 | Equipment Reliability | Reliability Distributions Reliability Block Diagram (RBD) Metrics | 3 |
| 5 | Work Management | Reliability Reliability Centered Maintenance (RCM) Reliability Centered Maintenance (RCM) | 5 |
| 6 | Work Management | Inventory Management M&R Analysis Tools Metrics | 5 |
| 7 | Manufacturing Process Reliability | 1. Introduction 2. Lean 3. Operator Driven Reliability (ODR) 4. Total Productive Maintenance (TPM) 5. Workplace Organization: 5 S 6. Case Study 7. Metrics | 2 |
| 8 | Organization and Leadership | 1. Introduction 2. Leadership and Organizational Culture 3. Vision, Mission, and Goals 4. Organization Structures 5. The reliability/maintenance leaders 6. Employee Life Cycle 7. People Development 8. Metrics | 4 |
| 9 | Business and management | 1. Introduction 2. KPIs 3. Benchmarking 4. Change management Theory 5. Metrics | 1 |
| 10 | Simulated Exam | 6 Exams (660 Questions) | |



Egypt Branch

- **L** 010000 737 79 0115 6666 052
- 02 228 77 808 0100 835 2306
- website: www.engineeringtracks.com
- المقر الرئيسي: ١ ؛ شارع مصطفي النحاس الدور الخامس مدينة نصر
- الـفـــرع: ١٨ شارع مصطفى النحاس الدور السادس مدينة نصر
- f www.facebook.com/engineeringtracks
- in www.linkedin.com/company/engineering-tracks
- www.instagram.com/engineering_tracks
- twitter.com/Eng_Tracks_EGY

KSA Branch

مركز التعليم المتكامل

6 056 488 73 77 - 056 53 77 370

6 056 906 37 72 - 056 63 77 994

- ⊠ info1@engineeringtracks.com
- www.facebook.com/EngineeringTracks.KSA
- www.instagram.com/engineering_tracks_ksa

برج النور الدور الثالث مكتب ٣٠٥ مقابل مسجد الملك سعود













