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Course Name

Reliability-Centered Maintenance for Critical Infrastructure

Sector Name

Maintenance & Reliability Management

Document Type

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Reliability-Centered Maintenance for Critical Infrastructure

Course Introduction

The Reliability-Centered Maintenance for Critical Infrastructure training is designed to provide participants with a comprehensive understanding of RCM principles and practices tailored for critical infrastructure facilities. Through a series of interactive sessions, participants will learn how to apply RCM analysis techniques to identify critical assets, determine failure modes, and prioritize maintenance tasks effectively.

The course will also cover implementation strategies, optimization practices, and program management frameworks to ensure the sustainability and effectiveness of RCM programs in critical infrastructure environments.

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Reliability-Centered Maintenance for Critical Infrastructure

Target Audience

This course is designed for maintenance managers, reliability engineers, asset managers, and facilities managers responsible for maintaining critical infrastructure facilities such as power plants, water treatment facilities, transportation systems, and telecommunications networks.

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Reliability-Centered Maintenance for Critical Infrastructure

Learning Objectives

- ✓ Understand the principles and concepts of Reliability-Centered Maintenance (RCM) and its significance for critical infrastructure.
- ✓ Learn RCM analysis techniques and methodologies for identifying critical assets, determining failure modes, and prioritizing maintenance tasks.
- ✓ Gain proficiency in implementing RCM in critical infrastructure facilities, including developing implementation plans and workflows.
- ✓ Develop strategies for optimizing and continuously improving RCM practices to maximize reliability and minimize downtime.
- ✓ Obtain knowledge and skills for RCM program management and sustainability to ensure long-term success and effectiveness.

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Reliability-Centered Maintenance for Critical Infrastructure

Course Outline

✓ **01 DAY ONE**

Introduction to Reliability-Centered Maintenance (RCM)

- ✓ Overview of Reliability-Centered Maintenance (RCM) and its Importance for Critical Infrastructure
- ✓ History and Evolution of RCM Principles
- ✓ Understanding the Objectives and Benefits of RCM for Critical Infrastructure
- ✓ Basic Concepts and Terminology in RCM
- ✓ Case Studies and Examples of RCM Implementation in Critical Infrastructure

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Course Outline

✓ **02 DAY TWO**

RCM Analysis Techniques and Methodologies

- ✓ Overview of RCM Analysis Processes and Methodologies
- ✓ Identification of Critical Assets and Functions in Critical Infrastructure
- ✓ Determining Failure Modes and Effects Analysis (FMEA) for Critical Systems
- ✓ Prioritizing Maintenance Tasks and Strategies based on Risk and Criticality
- ✓ Introduction to Advanced RCM Tools and Software

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Course Outline

✓ **03 DAY THREE**

Implementation of RCM in Critical Infrastructure

- ✓ Developing RCM Implementation Plans and Strategies
- ✓ Establishing RCM Workflows and Procedures in Critical Infrastructure Facilities
- ✓ Integration of RCM with Existing Maintenance Management Systems
- ✓ Conducting RCM Workshops and Analysis Sessions
- ✓ Addressing Challenges and Overcoming Barriers to RCM Implementation

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Course Outline

✓ **04 DAY FOUR**

Optimization and Continuous Improvement in RCM Practices

- ✓ Monitoring and Evaluating the Effectiveness of RCM Strategies
- ✓ Implementing Feedback Loops for Continuous Improvement
- ✓ Reviewing and Updating RCM Plans and Strategies based on Performance Feedback
- ✓ Utilizing Reliability Data and Analytics for RCM Optimization
- ✓ Case Studies and Best Practices of RCM Optimization in Critical Infrastructure

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Course Outline

✓ 05 DAY FIVE

RCM Program Management and Sustainability

- ✓ Establishing RCM Program Management Frameworks
- ✓ Developing Key Performance Indicators (KPIs) for RCM Program Evaluation
- ✓ Building a Culture of Reliability and Maintenance Excellence within Critical Infrastructure Organizations
- ✓ Strategies for Sustaining RCM Programs Over the Long Term

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 10, 2027	May 14, 2027	5 days	4250.00 \$	UAE , Dubai
Sept. 14, 2026	Sept. 18, 2026	5 days	4250.00 \$	UAE , Dubai
Dec. 7, 2026	Dec. 11, 2026	5 days	4250.00 \$	UAE , Dubai
March 14, 2027	March 18, 2027	5 days	4250.00 \$	KSA , Riyadh

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