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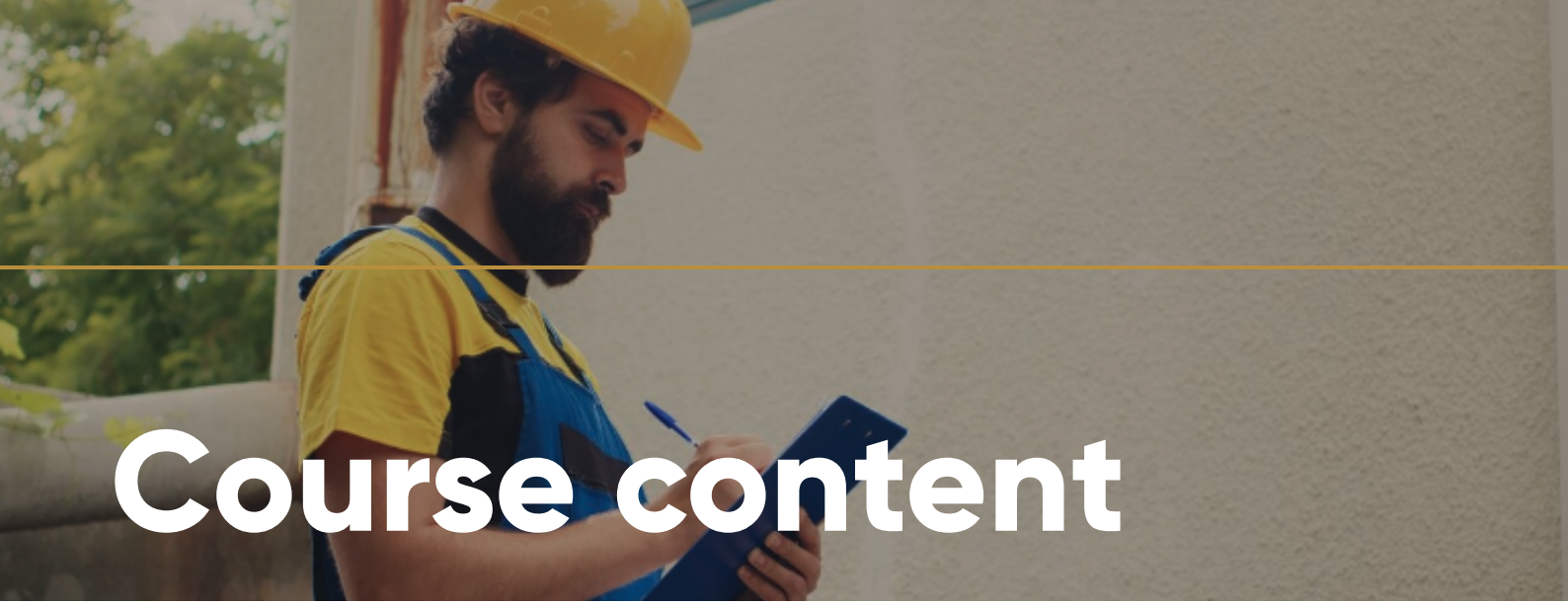


MAINTENANCE AND ENGINEERING | COURSE

Fundamentals of Maintenance Best Practice

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Course content

Why Attend

This course equips maintenance professionals with the essential knowledge and skills needed to implement industry-leading maintenance practices, enabling optimal efficiency and reliability in maintenance operations. Participants will explore various maintenance strategies, crafting customized approaches tailored to their unique equipment and systems. With a systematic approach, aided by cutting-edge digital tools, participants will learn to seamlessly execute these strategies, all while keeping track of performance to gauge their progress and improvements.

This course is based on open discussions, question and answer sessions, group exercises, activities, videos, case studies and presentations based on best practices and core principles.

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

• Explain key maintenance principles such as predictive maintenance (PdM), Total Preventive Maintenance (TPM), Reliability Centered Maintenance (RCM) and Root Cause Failure Analysis (RCFA)

• Select the right maintenance strategy that will eliminate downtime, at the optimum cost, and maximize facility performance

• Demonstrate the use of advanced maintenance tools and techniques to boost facility reliability

• Understand the significance of safety protocols and regulations in maintenance activities

• Recognize the latest technologies in maintenance and execute digitalization initiatives related to Asset Management

This course is suitable for any participants relatively new to the maintenance field/industry; this includes maintenance engineers, maintenance technicians, maintenance officials, maintenance supervisors, operators, operations supervisors, operations engineers and technicians.

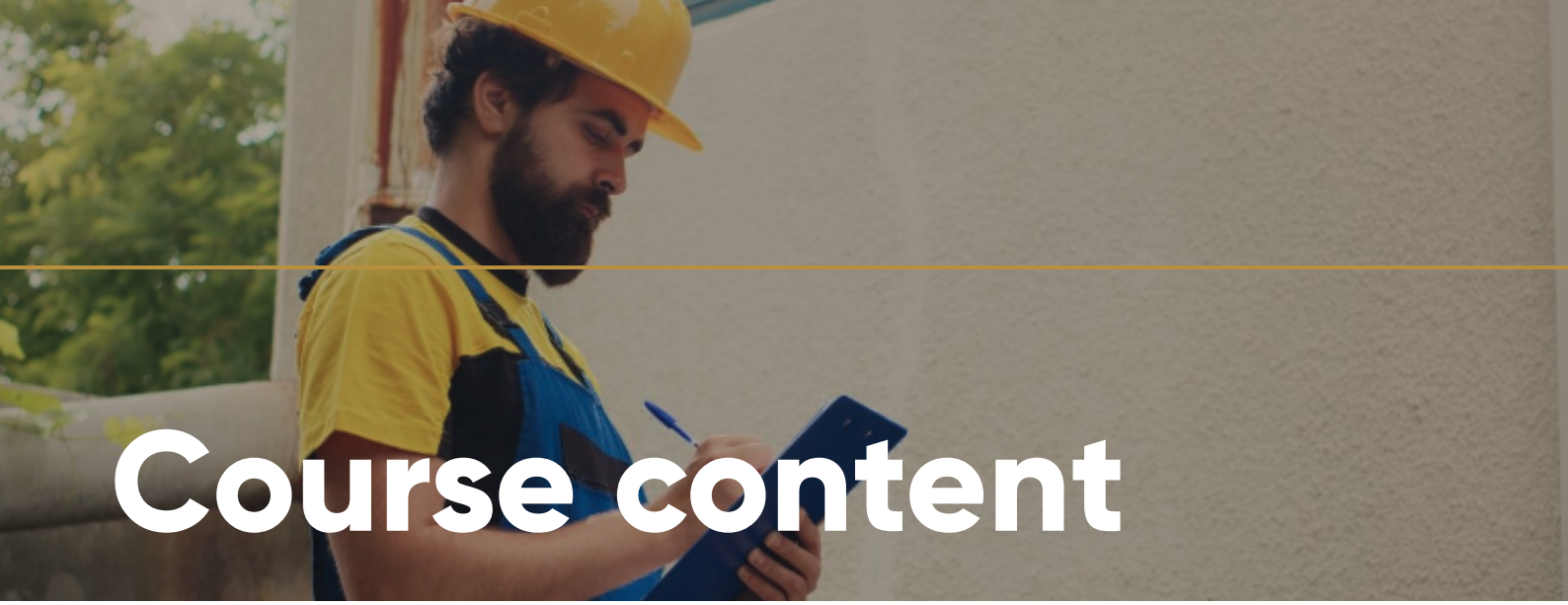
• Maintenance Management

• Failure Analysis

• Cost Optimization

• Materials Management

• Performance Management



Course content

Course outline

Introduction to Maintenance

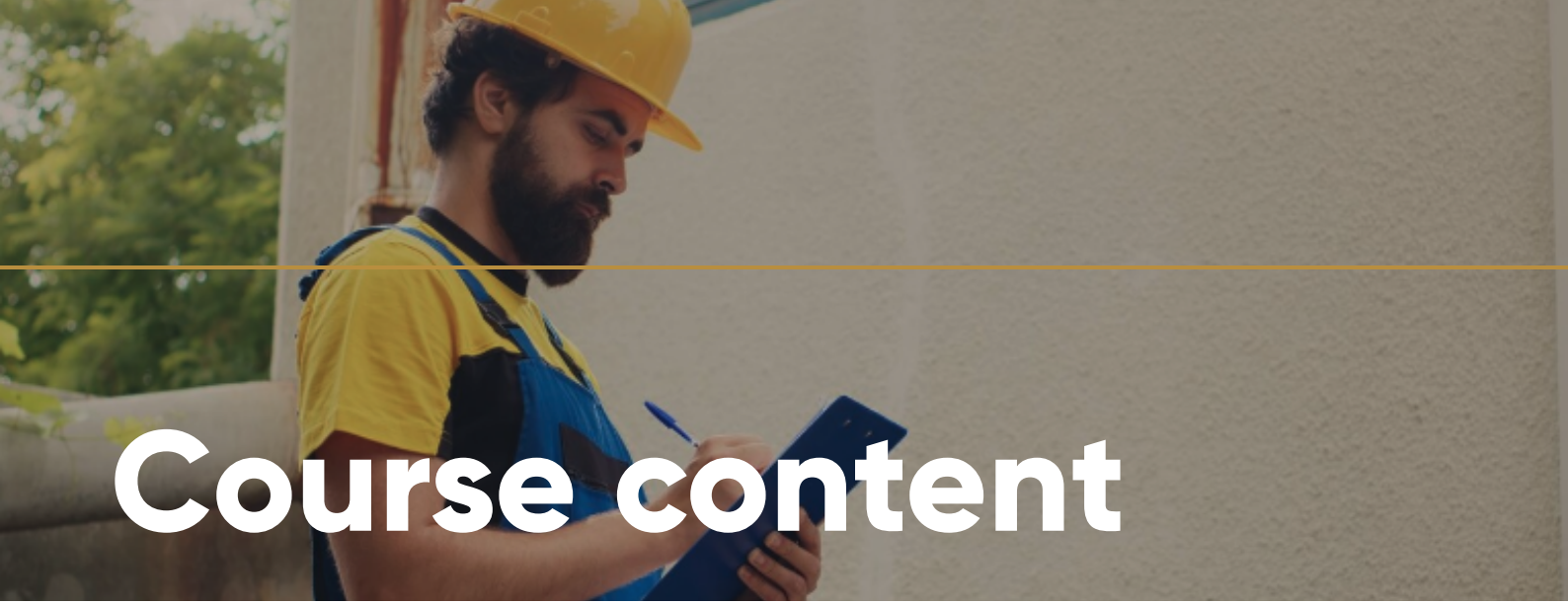
- Definition of maintenance
- Proactive maintenance
- The maintenance cost iceberg
- Reliability concepts
- Asset management and asset life cycle
- Health, Safety, and Environment (HSE)

Maintenance Strategy and Policies

- Corrective maintenance
- Preventive maintenance
- Time-based vs condition-based maintenance
- Predictive maintenance (PdM)
- Reliability centered maintenance (RCM)
- Selecting the right maintenance strategy

Predictive Maintenance (PdM) Techniques

- Predictive maintenance (PdM) definition
- PdM workflow
- Implementing PdM
- Types of PdM
- Condition-based maintenance
- Vibrational analysis



Course content

Course outline

- Acoustical analysis (ultrasonic)
- Infrared analysis
- Oil analysis
- The Return on Investment (ROI) of PdM

Equipment Reliability Management

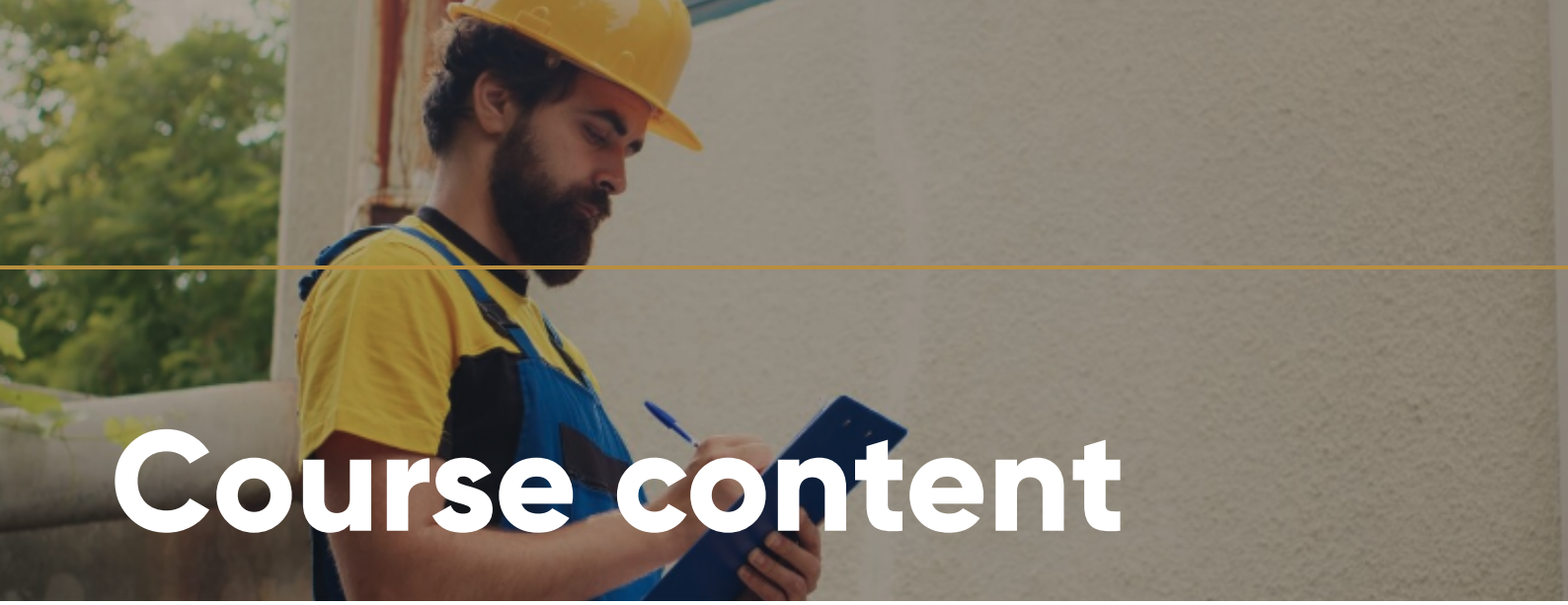
- Criticality analysis
- Reliability Centered Maintenance (RCM)
- RCM related references and standards
- Failure definitions
- RCM process flow diagram
- Defining RCM outputs
- Benefits of RCM

Total Preventive Maintenance (TPM)

- TPM pillars
- Kobetsu KAIZEN™
- Autonomous maintenance
- Planned maintenance
- How to implement TPM

Leadership, Organization and Skills

- Setting SMART goals
- Developing teams



Course content

Course outline

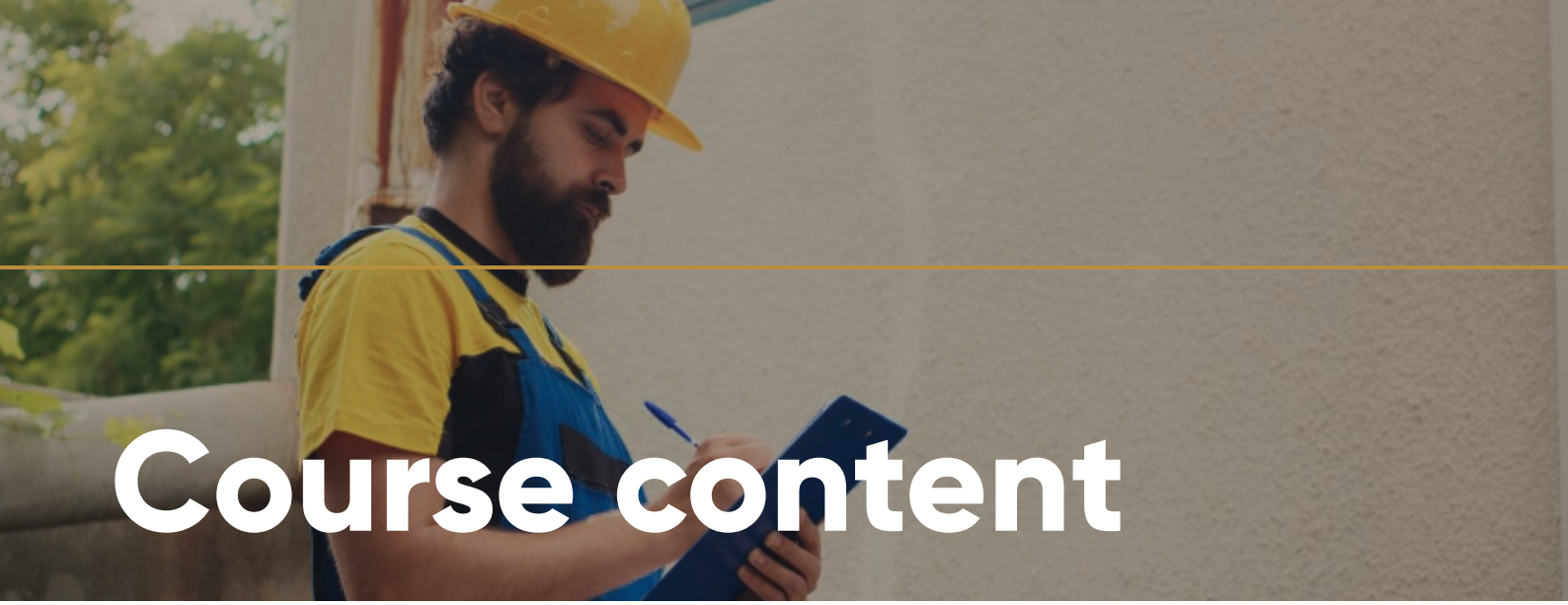
- Organization structure
- Defining roles and responsibilities (RACI Matrix)
- Skills development and training
- Change management in practice

Maintenance Management

- Maintenance management cycle
- Planning and scheduling definitions
- Maintenance planning process
- Maintenance scheduling process
- Maintenance, repair, and operations (MRO) definition and management
- Inventory and spare parts control
- ABC analysis as an inventory management technique
- Maintenance cost optimization

Root Cause Failure analysis (RCFA)

- What is RCFA?
- Define, analyze, prevent
- Root cause investigation process
- Fault tree analysis
- Fishbone diagram
- Failure codes and types
- Failure Modes and Effects Analysis (FMEA) method



Course content

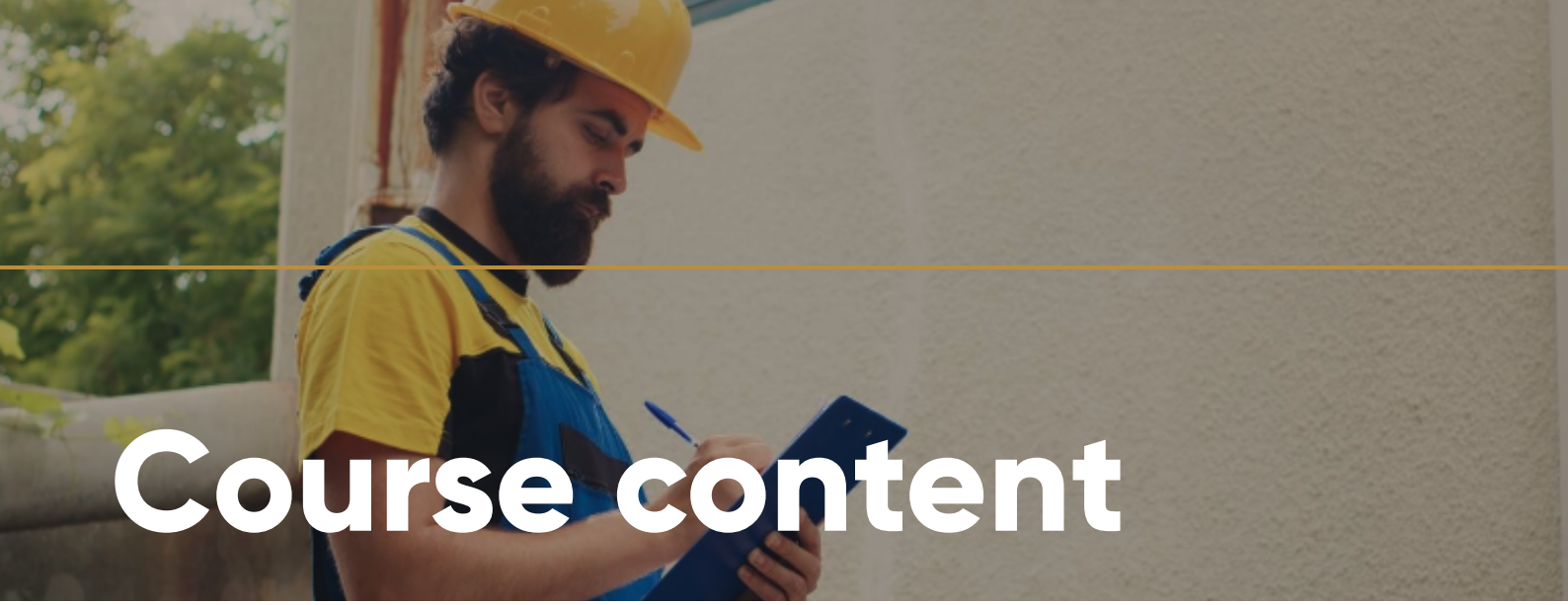
Course outline

Maintenance Activities Execution

- Work requests
- Work request workflow
- Types of work requests
- How work requests improve maintenance
- Work orders
- Work order workflow
- Types of work orders
- Work orders improve maintenance
- Bill of Materials (BOM)
- Components of a Bill of Materials
- Application Parts List (APL)
- APL vs. BOM
- Components of an APL
- Lockout Tagout (LOTO)
- LOTO process
- Importance of LOTO
- Standardized maintenance management process

Maintenance and Reliability Key Performance Indicators (KPIs)

- KPI types (leading and lagging KPIs)
- Business and management metrics
- Equipment reliability metrics



Course content

Course outline

- Inventory KPIs
- Maintenance performance measurement
- Benchmarking

Modern insights in Maintenance and Digitalization

- What is Computerized Maintenance Management System (CMMS)?
- CMMS modules
- What is Enterprise Asset Management System (EAMS)?
- EAMS Modules
- CMMS vs EAMS
- What is the right fit for your need?
- Industrial Internet of Things (IIOT)



Seminar dates

Available seminar dates

Live dates and pricing for Fundamentals of Maintenance Best Practice generated from the course details page.

Date	Location	Format	Fee
14 - 18 December 2026	Munich - Germany	Classroom	**€2,760.-**
18 - 22 January 2027	Rome - Italy	Classroom	**€3,400.-**
15 - 19 February 2027	Kuala lumpur - Malaysia	Classroom	**€1,800.-**
15 - 19 March 2027	Barcelona - Spain	Classroom	**€3,080.-**
19 - 23 April 2027	London - U.K	Classroom	**€3,360.-**
17 - 21 May 2027	Munich - Germany	Classroom	**€3,400.-**
21 - 25 June 2027	Rome - Italy	Classroom	**€3,400.-**
19 - 23 July 2027	Munich - Germany	Classroom	**€3,400.-**
16 - 20 August 2027	Rome - Italy	Classroom	**€3,400.-**
20 - 24 September 2027	Kuala lumpur - Malaysia	Classroom	**€1,800.-**
18 - 22 October 2027	Barcelona - Spain	Classroom	**€3,080.-**
15 - 19 November 2027	London - U.K	Classroom	**€3,360.-**
20 - 24 December 2027	Munich - Germany	Classroom	**€3,400.-**

Live online option	Online delivery is available at €1,850.-.