

## Identifying Critical Equipment Focus

*Madrid (Spain)*

*27 - 31 October 2025*

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## Identifying Critical Equipment Focus

Code: SC28 From: 27 - 31 October 2025 City: Madrid (Spain) Fees: 4400 Pound

### Introduction

This training course is tailored to empower participants with the knowledge and skills needed to identify and prioritize critical equipment within their organizations. It highlights the significance of critical equipment management in enhancing productivity, ensuring safety, and optimizing operational efficiency. Attendees will gain insights into evaluating equipment based on its role in business processes, assessing associated risks, and implementing best practices to maintain and optimize these vital assets.

### Course Objectives

By completing this course, participants will be able to:

- Define critical equipment and understand its importance in operations.
- Develop a structured approach to identifying critical equipment across industries.
- Evaluate and prioritize equipment based on business impact and potential failure risks.
- Implement effective strategies to enhance the performance and reliability of critical assets.
- Leverage tools and techniques for proactive monitoring and maintenance of critical equipment.

### Course Outlines

#### Day 1: Introduction to Critical Equipment

1. What is Critical Equipment?
  - Definition, importance, and identifying key characteristics.
2. Role of Critical Equipment in Operations
  - The impact of equipment failure on productivity, safety, and operations.
3. Types of Critical Equipment
  - Differentiating mission-critical, safety-critical, and operational-critical assets.
4. Critical Equipment and Asset Management
  - Integrating asset management practices to support critical equipment.
5. Key Identification Factors
  - Evaluating business impact, downtime, costs, safety concerns, and regulatory needs.

#### Day 2: Methodology for Identifying Critical Equipment

1. Criteria for Identification
  - Factors like usage frequency, failure consequences, and replacement costs.
2. Developing a Risk-Based Framework
  - Assessing equipment risks and prioritizing based on operational impact.
3. Failure Modes and Effects Analysis FMEA
  - Analyzing potential failures and their outcomes.
4. Data Collection and Analysis

A graphic of a chessboard with several chess pieces (a king, a queen, a rook, and a pawn) on it, set against a background of concentric circles.

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- Gathering and interpreting performance, failure, and impact data.
- 5. Creating a Prioritization Matrix
  - Categorizing equipment by criticality levels for actionable insights.

### Day 3: Assessing Impact and Failure Risks

1. Business Impact of Equipment Failures
  - Evaluating operational and financial implications of downtime.
2. Failure Risk Assessment
  - Calculating risk by considering likelihood and consequences of failures.
3. Criticality Scoring Models
  - Using quantitative methods to rank equipment based on criticality.
4. Leveraging Historical Data
  - Utilizing past performance data for better decision-making.
5. Integrating Safety and Compliance
  - Addressing safety risks and regulatory standards in assessments.

### Day 4: Maintenance and Optimization Strategies

1. Preventive Maintenance for Critical Equipment
  - Designing and scheduling maintenance plans for high-priority assets.
2. Condition Monitoring and Predictive Maintenance
  - Employing tools like vibration analysis and thermography for performance optimization.
3. Spare Parts Management
  - Ensuring quick access to parts to minimize downtime.
4. Reliability-Centered Maintenance RCM
  - Applying RCM principles to enhance asset reliability.
5. Training Maintenance Teams
  - Equipping personnel with the skills and knowledge needed for effective management.

### Day 5: Tools, Technologies, and Continuous Improvement

1. CMMS Computerized Maintenance Management Systems
  - Managing and tracking critical equipment with CMMS software.
2. IoT and Smart Sensors
  - Utilizing technology for real-time monitoring and predictive analytics.
3. KPIs for Equipment Performance
  - Tracking key metrics like MTTR, MTBF, and overall availability.
4. Continuous Improvement in Management Practices
  - Adopting methodologies like Lean, Six Sigma, and TPM for sustained optimization.
5. Case Studies and Best Practices
  - Learning from successful examples of critical equipment management across industries.



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