

**TRAINING TITLE**

**RAW MATERIAL STORAGE AND HANDLING SYSTEMS OPERATIONS**

**Training Duration**

**5 day**

**Training Venue and Dates**

<b>Ref. No.</b> ME207	<b>Raw Material Storage and Handling Systems Operations</b>	<b>5</b>	<b>25-29 Aug. 2025</b>	<b>\$5,500</b>	<b>ABU DHABI, UAE</b>
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

**Training Fees**

- \$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch

**Training Certificate**

**Define** Management Consultants Certificate of course completion will be issued to all attendees.

**TRAINING DESCRIPTION**

Efficient storage and handling of raw materials are essential for ensuring smooth production processes, reducing operational costs, and maintaining the quality and integrity of materials. This 5-day course provides a comprehensive understanding of the systems, technologies, and best practices involved in managing raw material storage and handling operations. Participants will gain both theoretical knowledge and practical skills to optimize operations, mitigate risks, and enhance safety and efficiency.

**TRAINING OBJECTIVES**

At the end of this course, the delegates should be able to:

1. Understand the fundamentals of raw material storage and handling systems.
2. Learn about the design, operation, and maintenance of storage facilities and handling equipment.
3. Explore safety protocols, environmental compliance, and risk management strategies.
4. Gain practical insights into troubleshooting and optimizing storage and handling operations.
5. Discover emerging trends and technologies, including automation and sustainability practices.

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## WHO SHOULD ATTEND?

- Operations and maintenance engineers involved in storage and handling systems.
- Warehouse and inventory managers.
- Plant supervisors overseeing material handling processes.
- Safety officers focused on hazard prevention in storage and handling.
- Process engineers and technicians working with raw materials.

## TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

## COURSE PROGRAM:

### Day 1: Fundamentals of Raw Material Storage and Handling

- Overview of raw material storage and handling in industrial operations.
- Types of raw materials: solids, liquids, gases, and bulk materials.
- Storage systems: silos, tanks, warehouses, bins, and hoppers.
- Principles of material handling: flow dynamics, load management, and material properties.
- Introduction to material handling equipment: conveyors, loaders, forklifts, and pumps.
- Safety and regulatory standards for storage and handling systems.

### Day 2: Storage Systems - Design, Operation, and Maintenance

- Key considerations in designing storage systems: capacity, material compatibility, and environmental conditions.
- Managing temperature, humidity, and contamination risks in storage facilities.

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- Best practices for monitoring inventory levels and maintaining stock quality.
- Maintenance strategies for storage systems: preventive and corrective approaches.
- Common issues in storage systems (e.g., clogging, corrosion, and structural integrity) and their solutions.

### Day 3: Material Handling Systems - Equipment and Operations

- Overview of material handling equipment and technologies: conveyors, feeders, cranes, and pneumatic systems.
- Principles of efficient material transfer: minimizing waste, spillage, and delays.
- Integration of automated handling systems with production processes.
- Troubleshooting material handling issues: equipment failure, blockages, and flow irregularities.
- Operator training and best practices for safe and efficient handling.

### Day 4: Safety, Environmental Compliance, and Risk Management

- Identifying and mitigating hazards in storage and handling operations.
- Personal protective equipment (PPE) and safety protocols for handling hazardous materials.
- Compliance with environmental regulations (e.g., air quality, spill prevention, and waste management).
- Emergency response planning: fire, spills, and equipment malfunctions.
- Sustainability in storage and handling: waste reduction and energy efficiency.
- Risk management and audit processes for storage and handling systems.

### Day 5: System Optimization, Technology Trends, and Assessment

- Strategies for optimizing storage and handling systems: layout design, process flow, and automation.
- Innovations in material handling technologies: robotics, IoT, and predictive analytics.
- Transitioning to sustainable and smart storage and handling systems.
- Final review and Q&A.
- Assessment and certification distribution.

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**NOTE:**

**Pre-& Post Tests will be conducted.**

**Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.**

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