

TRAINING TITLE

MASTERING WORKSHOP EQUIPMENT OPERATION AND UPKEEP

Training Duration

5 day

Training Venue and Dates

Ref. NO.	Mastering Workshop Equipment ME198 Operation and Upkeep	5	11-15 Aug. 2025	\$5,500	ABU DHABI, UAE
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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

This intensive 5-day course is designed to provide participants knowledge for mastering workshop equipment operation and maintenance. Participants will learn how to operate a wide range of tools and machinery, perform routine upkeep, troubleshoot common issues, and ensure optimal performance and safety.

TRAINING OBJECTIVES

By the end of this 5-day course, participants will have a solid understanding of the safe operation, regular maintenance, troubleshooting, and best practices for equipment upkeep, ensuring they can confidently manage a wide variety of tools and machinery in a workshop environment.

WHO SHOULD ATTEND?

- Mechanical Engineers
- Industrial Engineers
- Maintenance Technicians
- Manufacturing and Production Managers
- Workshop Supervisors

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- **Operations Managers**
- **Equipment Maintenance Specialists**
- **Technicians and Engineers in Training**
- **Facility Managers**
- **Technological and Engineering Managers**

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: Introduction to Workshop Equipment and Safety Protocols

- **Overview of Workshop Equipment:**
 - Introduction to basic hand tools, power tools, and machinery
 - Understanding tool classifications and selecting appropriate equipment for tasks
 - Basic principles of equipment functionality (e.g., motors, electrical systems)
- **Safety Protocols:**
 - Workshop safety essentials: hazards and risks in the workshop environment
 - PPE (Personal Protective Equipment) use and best practices
 - Emergency protocols: fire safety, first aid, and handling accidents

Day 2: Operating Power Tools and Machines

- **Power Tools Operations:**
 - Safe and efficient use of drills, saws, grinders, sanders, and other common power tools
 - Adjusting settings, attachments, and accessories for different tasks
- **Operating Heavy Machinery:**

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- Overview of heavier machinery (e.g., lathe, milling machines, CNC machines)
- Safe operation techniques and maintenance considerations for large equipment

Day 3: Routine Maintenance and Preventive Care

- Why Maintenance Matters:
 - Importance of regular maintenance for tool and machinery longevity
 - Understanding manufacturers' maintenance guidelines
 - Introduction to lubrication, cleaning, and inspection processes
- Routine Maintenance Tasks:
 - Daily and weekly maintenance checklists for common tools and machinery
 - Cleaning and lubricating power tools, motors, and moving parts
 - Checking for wear and tear: belts, filters, bearings

Day 4: Troubleshooting and Repairs

- Troubleshooting Techniques:
 - Identifying and diagnosing common equipment issues (e.g., overheating, strange noises, power loss)
 - Electrical vs. mechanical issues: how to differentiate
 - Simple troubleshooting tools and techniques (multimeters, visual inspections, sound analysis)
- Basic Repairs:
 - Performing simple repairs: replacing belts, filters, parts, etc.
 - How to disassemble and reassemble equipment safely
 - When to call in professionals for more complex repairs

Day 5: Organizing, Storing, and Advanced Techniques

- Workshop Organization and Storage:
 - Efficient and safe storage solutions for tools and machines
 - Labeling, inventory management, and creating organized workspaces
 - Best practices for tool preservation and reducing wear and tear
- Advanced Techniques:
 - Introduction to advanced machinery like CNC systems or welding equipment
 - Customizing or upgrading workshop equipment
 - Setting up calibration or programming for machines (e.g., CNC, lathes)

NOTE:

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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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