



المركز العالمي للتدريب والتطوير  
International Centre For Training & Development



# MUE100

## Gas Turbines & Compressors

### Troubleshooting



**ACTVET**  
Abu Dhabi Centre for  
Technical and Vocational  
Education and Training

مركز أبوظبي  
للعلوم والتقنية  
التعليم والتدريب

**GInI** GLOBAL  
INNOVATION  
INSTITUTE™  
Authorized Innovation Provider®

**PMI** Project  
Management  
Institute  
Registered  
Education  
Provider



International Association  
for Health and Occupational Safety  
and the Environment

**EFQM**  
Member



## Course Introduction:

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This course is a must if your company's goals include reducing costs and preserving the lives of your employees because it delivers a wide range of pro-active, efficient troubleshooting skills. It has been proven that technical competence alone is no longer enough to ensure consistent operational performance. Excellent troubleshooting skills are considered a core competency for 'Best-in-Class' modern industrial companies. In the competitive world that we are living in, it is essential that we optimize our efforts to secure the desired outcomes, and this course will equip the delegate with the basic tools and understanding to make that happen.

### **This course will feature:**

- The understanding of terminologies; tools and techniques
- Apply a standard "Blue-Print" for problem analysis and resolution
- How to utilize Maturity Indexing; Planning; and Protocols
- Useful Case Studies; Exercises and Analysis
- Learning the "Human Factors" as a Source of Error

## Course Objectives:

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### **Upon completion of this course, participants will be able to:**

- ✓ Appreciate the difference and consequences between pro-active and reactive problem solving
- ✓ Develop a structured approach to troubleshooting and problem solving
- ✓ Understand continuous improvement in the way you run your processes
- ✓ Implement teamwork and leadership principles; support and cooperation practices
- ✓ Understand work practices which "allow" success in troubleshooting and problem solving

## Who Should Attend?

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### **This course is suitable to a wide range of professionals but will greatly benefit:**

- Employees who are responsible for leading and directing people to achieve and improve productivity levels
- Those faced with the challenge of solving plant related problems
- Production, Maintenance Engineering and Process Engineering personnel
- Supervisors who are involved in the Operations / Maintenance function

- Planners, Coordinators, Engineers and Technologists

## Course Outline:

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### Day 1:

#### **INTRODUCTORY CONCEPTS**

- Defining the nature of problems
- Utilizing a Common Terminology
- Techniques introduction
- Tools introduction
- Levels of Performance Standard
- Critical Relationships

### Day 2:

#### **TOOLS & TECHNIQUES – PRACTICAL EXPERIENCE**

- Application of Decision Logic
- Practical Maturity Indexing
- Relationships Analysis
- Problem Analysis and Synthesis
- Practical Use of Tools and Techniques
- Project selection methods

### Day 3:

#### **PEOPLE ISSUES**

- Working practices – empowerment or impairment?
- Group dynamics
- Individual motivators: External vs. Internal Motivation
- Developing Leadership Competence
- Managing change via the Transition Matrix

### Day 4:

#### **Operator, Maintainer, Designer Interface**

- Cross functional problem solving
- Development of Maintenance strategy
- Life Cycle Analysis, Design for Operation, Design for Maintenance
- Variability Analysis

- Strategies; Planning; and Protocols
- Effect of improved "Fit" between critical parameters in Operations

### **Day 5:**

#### **Open Forum**

- Concepts, Tools and Techniques applied to problems
- Configuration Management
- Commercial Programs
- The Critical stages of Data Maturity
- Case Studies and Action Plans
- Wrap up

## **Course Certificate:**

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**International Center for Training & Development (ICTD)** will award an internationally recognized certificate(s) for each delegate on completion of training.

## **Course Methodology:**

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**A variety of methodologies will be used during the course that includes:**

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

## Course Fees:

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**To be advised as per the course location.** This rate includes participant's manual, Hand-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

## Course Timings:

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### Daily Course Timings:

08:00 - 08:20	Morning Coffee/Tea
08:20 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Coffee/Tea/Snacks)
13:30 - 15:00	Last Session

