



Quality Management & Operational Excellence

**Attention to Details and Quality**

## Course Introduction

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In manufacturing industry, adhering to quality standards and maintaining quality assurance or control is highly essential as it ensures product's safety from defects and most of all, that it meets the quality requirements. Inspection and measurement are also required during production for quality control because of the inherent variability introduced by the machines, tools, raw materials, and human operators which causes variations in the different quality characteristics (length, diameter, thickness, tensile strength, surface finish etc.) of the product.

### **fixing the sources of defects**

It helps to control the quality of products by fixing the sources of defects immediately after they are detected. Several non-destructive inspection methods also help to perform in-service inspection to avoid any catastrophic failure and predict the remaining life of the product.

### **quality inspection**

This training course is designed to provide participants with the concepts and principles of Quality Assurance/Control and the importance of attention to details and quality inspection in the manufacturing industry.

### **ISO 9001**

This course will focus on topics about ISO 9001 as the most recognized management standards in the manufacturing industry and the role of inspection and measurement for Quality Assurance/Control in Manufacturing.

## Target Audience

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- practitioners in quality and audits
- Senior members and managers of organisations who need to understand the significance of training employees on quality management
- Quality team members

- Professionals aspiring to undertake a quality-related certification
- Construction project owners
- Design consultants
- Construction contractors

Architects

Non-engineering construction professionals

## Learning Objectives

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- Gain a comprehensive understanding of the purpose and intent of the series of management system standards
- Apply of the principles of quality management and quality assurance/inspection to the manufacturing industry.
- Identify various methods of inspection and quality control.
- Understand how to implement a quality management system and the importance of auditing it.

## Course Outline

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### • 01 DAY ONE

#### Introduction

- Fundamental Concept of Quality
- Role of Inspection and Measurement for Quality Assurance/Control in Manufacturing
- Need of Inspection and attention to Details and Quality
- Attention to Details:
- Inspection Types and Principles
- Design for Inspection and Destructive Inspection
- Non-destructive Inspection-I: Visual Inspection, Dye Penetrant Inspection, Magnetic Particle Inspection, Eddy Current Inspection, Ultrasonic Testing

- Non-destructive Inspection-II: Acoustic Emission Inspection, Radiography, Leak Testing, Thermographic Non-destructive Testing, Advanced Non-destructive Techniques, NDT Standards, Safety in NDT

## • 02 DAY TWO

### Quality Assurance

- Basic Statistics and Applications
- Statistical Process Control (SPC)
- Quality Improvement
- Quality Audits
- Quality Tools and Techniques

## • 03 DAY THREE

### Quality Assurance

- Problem - solving Tools and Continuous Improvement Techniques
- Control of nonconforming material
- Basic statistics and applications
- Process capability (Cp)
- Quality improvement: PDCA, tools and techniques
- Lean and six-sigma methods

## • 04 DAY FOUR

### ISO 9001 Quality Management Systems

- Basic Quality Concepts
- 7 Quality Principles
- ISO 9001 Standard
- Benefits of ISO 9001
- Implementing ISO Quality Management Systems
- Defining Your System o Documentation types and levels
- Level 1 policy manual o Process flows and interactions
- Project timeline
- Procedures
- Work instructions

## • 05 DAY FIVE

### ISO 9001 Quality Management Systems

- Internal Auditing
- Value of auditing
- Process auditing

- Auditor objectivity and communication
- Audit program management
- Audit process
- Corrective actions

## Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 21, 2025	April 25, 2025	5 days	4250.00 \$	UAE - Abu Dhabi
July 28, 2025	Aug. 1, 2025	5 days	4250.00 \$	UAE - Abu Dhabi
Dec. 29, 2025	Jan. 2, 2026	5 days	4250.00 \$	UAE - Dubai