



Quality Management & Operational Excellence

Fundamentals of Quality control tools

Course Introduction

Ensuring high-quality products and services is essential for any organization's success. **BOOST** presents this comprehensive five-day training on the **Fundamentals of Quality Control Tools**, designed to equip professionals with the essential techniques for monitoring, analysing, and improving quality standards. Participants will gain hands-on experience in implementing core quality control tools to enhance efficiency, reduce defects, and drive continuous improvement in their organizations.

Target Audience

- Quality assurance and quality control professionals.
- Engineers and production supervisors.
- Manufacturing and operations managers.
- Process improvement and Six Sigma practitioners.
- Professionals seeking a strong foundation in quality management principles.

Learning Objectives

- Understand the principles and importance of quality control.
- Apply fundamental quality control tools to analyse and solve quality-related issues.
- Utilize data-driven decision-making techniques for process improvement.
- Interpret statistical quality control charts for monitoring processes.
- Identify root causes of defects and implement corrective actions effectively.
- Foster a culture of continuous quality improvement within their organizations.

Course Outline

• 01 DAY ONE

Introduction to Quality Control & Key Concepts

- Understanding Quality: Definitions and Importance
- Overview of Quality Control vs. Quality Assurance
- Principles of Total Quality Management (TQM)
- Introduction to ISO Standards and Quality Frameworks
- Overview of the Seven Basic Quality Tools

• 02 DAY TWO

Data Collection & Statistical Process Control (SPC)

- Importance of Data in Quality Control
- Types of Data and Data Collection Methods
- Introduction to Statistical Process Control (SPC)
- Understanding Variability and Process Capability
- Constructing and Interpreting Control Charts (X-bar, R, P, and C charts)

• 03 DAY THREE

Root Cause Analysis & Problem-Solving Tools

- Identifying and Analysing Root Causes of Quality Issues
- The 5 Whys Technique for Root Cause Analysis
- Fishbone Diagram (Ishikawa) for Problem Solving
- Pareto Analysis: Prioritizing Issues Effectively

• 04 DAY FOUR

Process Improvement & Defect Prevention

- Understanding Process Mapping and Flowcharts
- Failure Modes and Effects Analysis (FMEA)
- The Role of Benchmarking in Quality Control
- Mistake-Proofing (Poka-Yoke) Techniques

• 05 DAY FIVE

Quality Audits & Continuous Improvement Strategies

- Conducting Quality Audits and Inspections
- Implementing Corrective and Preventive Actions (CAPA)

- Kaizen and Continuous Improvement Practices
- Best Practices for Sustaining Quality Excellence

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 4, 2025	May 8, 2025	5 days	4250.00 \$	KSA - Riyadh
Aug. 18, 2025	Aug. 22, 2025	5 days	4250.00 \$	UAE - Dubai
Nov. 17, 2025	Nov. 21, 2025	5 days	4950.00 \$	Austria - Vienna