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Course Name

Fundamentals of Quality control tools

Sector Name

Quality Management & Operational Excellence

Document Type

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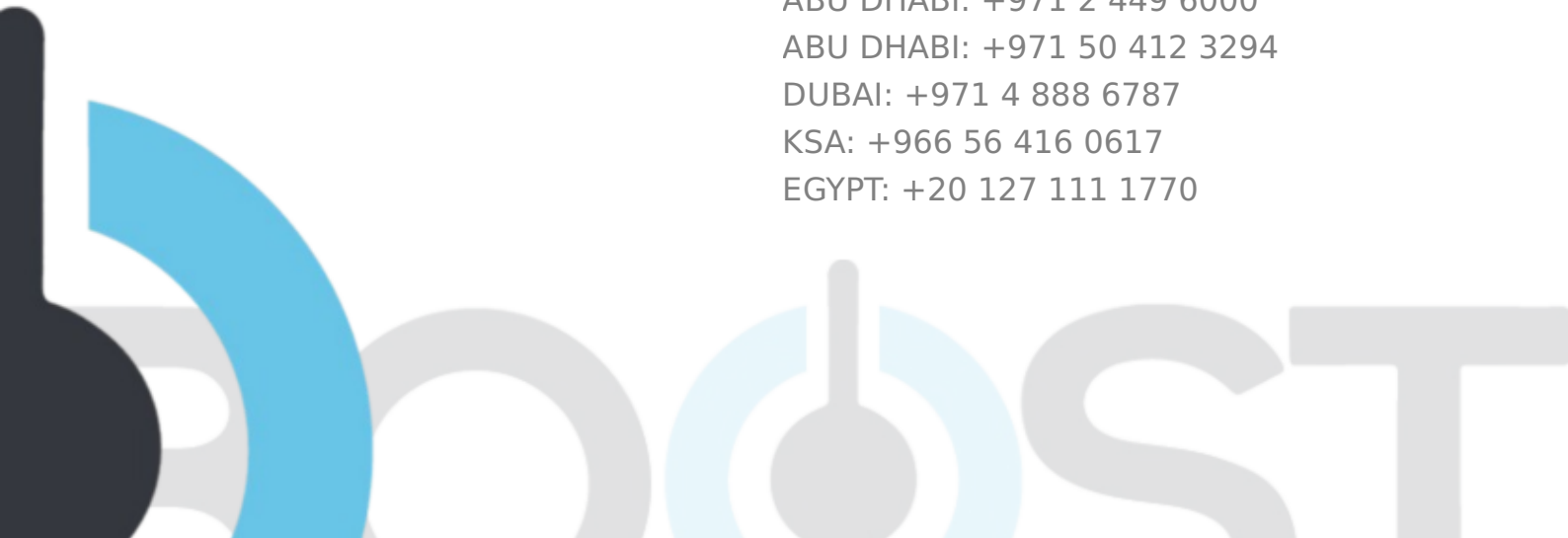
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Fundamentals of Quality control tools

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.

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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.

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Learning Objectives

- ✓ Understand the principles and importance of quality control.
- ✓ Apply fundamental quality control tools to analyze 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.

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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

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Course Outline

✓ 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)

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Course Outline

✓ **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

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Course Outline

✓ **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

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Course Outline

✓ **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

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 23, 2027	May 27, 2027	5 days	4250.00 \$	KSA , Riyadh
Nov. 23, 2026	Nov. 27, 2026	5 days	4950.00 \$	Austria , Vienna
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Aug. 30, 2027	Sept. 3, 2027	5 days	4250.00 \$	UAE , Dubai

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