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Engineering office for Technology and Software Services

المكتب الهندسي لخدمات التكنولوجيا والبرمجيات



## Safety & Quality Courses

### Quality Control and Assurance



Course Code: 9003-Safety

Main Branch: United building – E Shams –Front NBE  
, El Siouf \_Alexandria

Tel: 01102060500-01144470856



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## Introduction

Build the skills you need to ensure products and services meet the highest standards!

This practical course covers the essential principles, tools, and methods of quality control and assurance, with a focus on real industry challenges and solutions.



## Course Description

Over four weeks, you will master core concepts in quality control and assurance. The training includes hands-on exercises, practical projects, and in-depth coverage of industry-standard methodologies like TQM, Kaizen, and Six Sigma. You'll learn how to use data, analyze defects, and implement continuous improvement strategies.



## Time Frame

- **Duration:** 4 Weeks
- **Sessions:** 12 Sessions (2 hours each)
- **Format:** Live interactive classes, case studies, and practical projects



## What You Will Learn

- Core concepts of quality control and quality assurance
- How to use quality control tools (control charts, sampling methods, etc.)
- Effective defect analysis using Root Cause Analysis
- Implementation of Total Quality Management (TQM)
- Continuous process improvement (Kaizen, Six Sigma)
- Applying quality methods in real projects and case studies

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## Course Materials

- Comprehensive lecture slides and notes
- Quality tools templates (charts, checklists, sampling plans)
- Case study materials and sample datasets
- Assignments and mini-project guidelines
- Access to quality analysis software (where available)



## Requirements

- No prior quality background needed
- Basic numeracy and logical thinking
- Laptop/PC with internet access
- Motivation to participate and learn



## Instruction Method

- **Lectures:** Easy-to-follow, practical explanations
- **Workshops:** Hands-on quality tools and exercises
- **Group Discussions:** Share challenges and best practices
- **Case Studies:** Real-world problem solving
- **Capstone Project:** Team-based quality evaluation assignment



## Course Outline & Timeline

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## Week 1: Foundations of Quality Control & Assurance

- **Session 1:** Introduction to Quality Control and Assurance
- **Session 2:** Quality Control Tools (Control Charts, Checklists, Flowcharts)
- **Session 3:** Practical Workshop—Applying Control Charts

## Week 2: Sampling & Defect Analysis

- **Session 4:** Sampling Techniques and Testing Methods
- **Session 5:** Root Cause Analysis (Fishbone, 5 Whys)
- **Session 6:** Workshop—Defect Analysis with Real Data

## Week 3: Total Quality Management & Continuous Improvement

- **Session 7:** Principles of TQM
- **Session 8:** Kaizen and Continuous Process Improvement
- **Session 9:** Six Sigma Basics and Implementation

## Week 4: Case Studies & Practical Project

- **Session 10:** Review of Industry Case Studies
- **Session 11:** Capstone Project: Quality Evaluation
- **Session 12:** Final Presentations & Feedback



## Target Audience

- Quality managers and supervisors

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- Production and operations staff
- Engineers and technicians
- Anyone involved in process improvement



## How to Get Started

1. Register for the course
2. Receive pre-course materials and schedule
3. Attend all sessions and actively participate
4. Complete the capstone project for certification



## Tips for Success

- Take part in discussions and workshops
- Apply quality tools to your own work
- Review provided materials and ask questions
- Collaborate on the project for hands-on experience



## Learning Outcomes

- Deep understanding of quality control and assurance
- Ability to use quality tools to improve processes
- Confidence to participate in or lead quality initiatives
- Certificate of completion and project evaluation

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**Ready to drive quality and improvement in your organization?  
Enroll now and build your expertise!**

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