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المعهد الهندسي لخدمات التكنولوجيا والبرمجيات

Engineering office for Technology and Software Services



## Safety & Quality Courses

### Industrial Safety and Risk Management



Course Code: 9004-Safety

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

Tel: 01102060500-01144470856



الفرع الرئيسي :عمارات المتحدة – عمارة عين شمس – امام البنك  
الاهلي – السيوف- الاسكندرية

تليفون: 01102060500 - 01144470856

E-mail. [adelramadan@eotss-academy.com](mailto:adelramadan@eotss-academy.com)  
[info@eotss-academy.com](mailto:info@eotss-academy.com)



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## Introduction

Empower yourself to manage and reduce risks in industrial environments!  
This practical course trains engineers and supervisors to identify, evaluate, and control hazards—ensuring safety and compliance in the workplace.

## Course Description

In this 3-week, intensive training, you will gain the essential knowledge and tools to assess industrial risks, prepare emergency response plans, and implement preventive safety measures. The course blends expert lectures, real-world case studies, and hands-on activities to develop practical skills for immediate application.

## Time Frame

- **Duration:** 3 Weeks
- **Sessions:** 9 Sessions (2 hours each)
- **Format:** Live virtual or classroom sessions, practical workshops, case studies

## What You Will Learn

- Comprehensive understanding of industrial hazards (electrical, mechanical, chemical, etc.)
- Risk assessment and hazard analysis techniques
- Emergency planning and evacuation procedures
- How to develop and implement preventive safety measures
- Crisis and incident management
- Application of safety concepts in real-life situations

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[info@eotss-academy.com](mailto:info@eotss-academy.com)



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## Course Materials

- Illustrated lecture slides and notes
- Risk assessment and safety checklist templates
- Case study handouts
- Emergency planning worksheets
- Assignments and scenario-based exercises

## Requirements

- No prior safety training required
- Suitable for engineers, supervisors, and technical staff
- Computer or notebook for taking notes and completing exercises
- Willingness to participate in practical activities

## Instruction Method

- **Expert Lectures:** Essential concepts and current standards
- **Workshops:** Interactive risk assessment and safety planning
- **Case Studies:** Real industrial incidents and lessons learned
- **Simulations:** Emergency scenarios and role-playing
- **Assignments:** Develop your own safety and risk management plans

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[info@eotss-academy.com](mailto:info@eotss-academy.com)



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## Course Outline & Timeline

### Week 1: Introduction & Hazard Identification

- **Session 1:** Introduction to Industrial Safety
- **Session 2:** Identifying Electrical, Mechanical, and Chemical Hazards
- **Session 3:** Practical Workshop—Hazard Recognition

### Week 2: Risk Assessment & Emergency Planning

- **Session 4:** Risk Assessment Techniques and Tools
- **Session 5:** Hazard Analysis Methods
- **Session 6:** Emergency Response & Evacuation Planning

### Week 3: Preventive Measures & Real-world Application

- **Session 7:** Implementing Preventive Safety Procedures
- **Session 8:** Case Studies—Industrial Safety Incidents
- **Session 9:** Capstone: Practical Application and Group Presentations

## Target Audience

- Engineers
- Supervisors
- Safety officers
- Technical professionals in industrial settings

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## How to Get Started

1. Register for the course
2. Download or receive your course materials
3. Attend all sessions and participate in exercises
4. Complete assignments and the capstone project for certification

## Tips for Success

- Engage in group activities and workshops
- Apply the techniques to your real work environment
- Ask questions and share your experiences
- Review safety checklists and plans after each session

## Learning Outcomes

- Full understanding of industrial hazards and risk management
- Ability to conduct risk assessments and develop safety plans
- Practical skills for managing emergencies and incidents
- Certificate of completion for professional development

**Ready to make your workplace safer and more resilient?  
Enroll now and gain essential industrial safety skills!**

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