



Consulting and Training | Reach New Heights

Course Name

NEBOSH IGC For Engineering Level (for Health and Safety Department Engineers)

Sector Name

Quality Management & Operational Excellence

Document Type

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NEBOSH IGC For Engineering Level (for Health and Safety Department Engineers)

Course Introduction

Health & Safety Engineers require more than operational experience — they must apply structured health and safety knowledge to evaluate risks, implement controls, and comply with global safety standards.

This NEBOSH-customized program strengthens engineers understanding of hazard management systems, legal frameworks, and the structured investigation and mitigation of workplace risks using NEBOSH methodologies.

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Target Audience

- ✓ Health & Safety Engineers needing formal qualifications or upskilling
- ✓ Operational Engineers transitioning into H&S responsibilities
- ✓ Supervisors or managers responsible for implementing H&S policies
- ✓ New HSE team members who need a NEBOSH-aligned foundation

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Learning Objectives

- ✓ Understand the NEBOSH IGC framework and its application in industrial settings
- ✓ Conduct structured hazard identification and risk assessment
- ✓ Interpret legal and organizational duties of employers and employees
- ✓ Apply engineering judgment to design or verify control measures
- ✓ Support investigations and audits using NEBOSH-compliant formats
- ✓ Communicate risk clearly to technical and non-technical stakeholders
- ✓ Contribute to the development and improvement of HSE management systems
- ✓ Prepare for the full NEBOSH IGC examination and career advancement

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Course Outline

✓ DAY 01

Introduction to NEBOSH and Safety Leadership in Engineering

- ✓ Purpose of NEBOSH IGC and relevance to engineering professionals
- ✓ Role of engineers in safety policy enforcement and compliance
- ✓ Safety culture, human factors, and influence of design decisions
- ✓ **Management systems:** PDCA, ISO 45001, OHSAS 18001

Legal Frameworks and Engineering Accountability

- ✓ ILO conventions, NEBOSH structure, and national safety laws
- ✓ Legal obligations: employer vs employee
- ✓ Engineering decisions under legal scrutiny
- ✓ **Case study:** Regulatory action after a system failure

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Course Outline

✓ Day 02

Risk Assessment and Engineering-Based Controls

- ✓ 5 Steps of risk assessment with engineering examples
- ✓ Hazard prediction in design and process modification
- ✓ Hierarchy of control and design-level risk elimination
- ✓ **Activity:** Engineer-led risk evaluation for a live process

Workplace Hazards - Technical Hazards in Focus

- ✓ Mechanical hazards: rotating equipment, machine guards
- ✓ Electrical hazards and safe system design
- ✓ Work at height, confined spaces, pressure vessels
- ✓ Fire, explosion, and flammable atmospheres

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Course Outline

✓ Day 03

Hazardous Substances and Environmental Engineering Controls

- ✓ Chemical exposure and storage risks
- ✓ SDS interpretation and ventilation solutions
- ✓ Waste handling and environmental compliance
- ✓ **Group exercise:** Designing containment for hazardous storage

Incident Investigation & Root Cause Analysis

- ✓ NEBOSH approach to incident investigation
- ✓ Root Cause Analysis (RCA) from an engineering perspective
- ✓ Evidence collection, documentation, and reporting
- ✓ **Practice:** Analyze and report a technical incident using NEBOSH format

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Course Outline

✓ Day 04

Monitoring, Audit, and Safety Improvement Planning

- ✓ Proactive vs reactive monitoring
- ✓ Supporting and conducting safety audits
- ✓ Identifying trends and recommending system improvements
- ✓ **Workshop:** Build an engineer-led safety performance improvement plan

Engineering Leadership in Safety Culture

- ✓ Driving safe design and process improvement
- ✓ Engineering's influence on behaviors and culture
- ✓ **Case study:** Failure due to engineering oversights
- ✓ **Team activity:** Design a safety leadership model

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Course Outline

✓ Day 05

Integrated Safety in Projects & Operational Planning

- ✓ Integrating NEBOSH-aligned controls into project planning
- ✓ Safety during shutdowns, turnarounds, and new equipment installation
- ✓ Field coordination with contractors and vendors
- ✓ **Exercise:** Safety integration plan for a process upgrade
- ✓ Practical Workshop.

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NEBOSH IGC For Engineering Level (for Health and Safety Department Engineers)

Confirmed Sessions

| FROM | TO | DURATION | FEES | LOCATION |
|----------------|----------------|----------|------------|----------------------|
| June 8, 2026 | June 12, 2026 | 5 days | 4250.00 \$ | UAE , Dubai |
| Sept. 21, 2026 | Sept. 25, 2026 | 5 days | 4250.00 \$ | UAE , Dubai |
| Feb. 1, 2027 | Feb. 5, 2027 | 5 days | 5950.00 \$ | switzerland , Geneva |
| Dec. 14, 2026 | Dec. 18, 2026 | 5 days | 4250.00 \$ | UAE , Abu Dhabi |

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