

Course Name

Climate Risk & Workplace Safety

Sector Name

Health, Safety and Environment

Document Type

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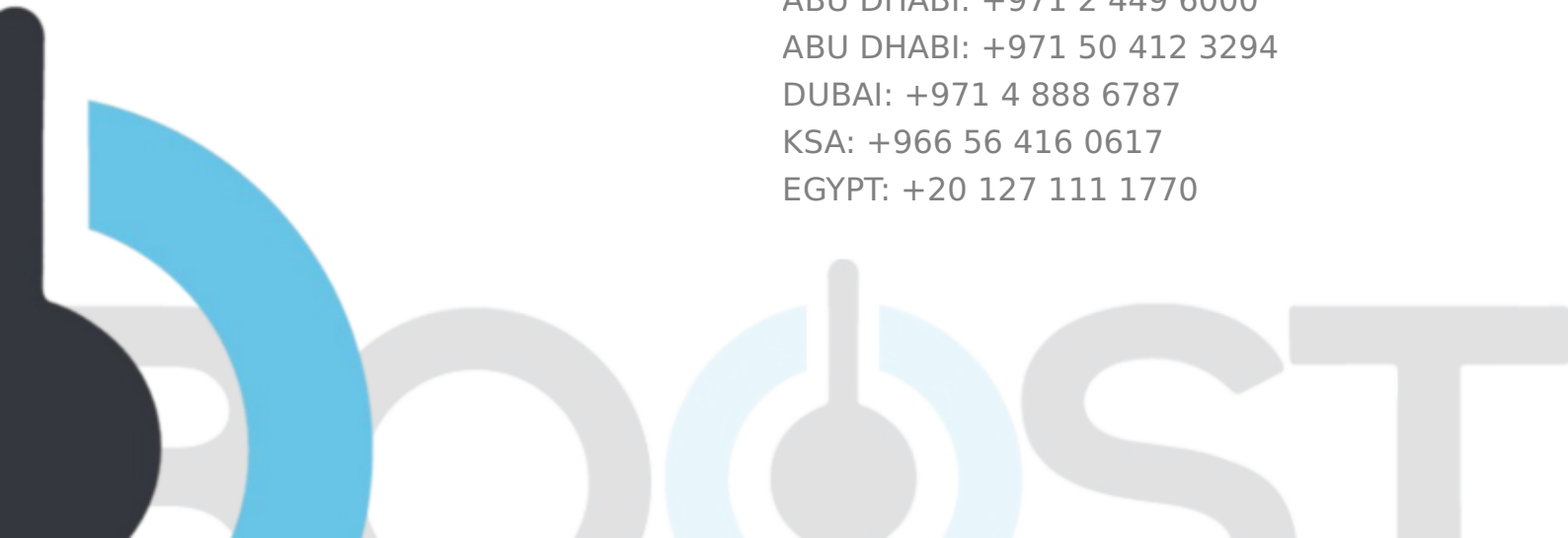
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Climate Risk & Workplace Safety

Course Introduction

Climate-related hazards are becoming a more immediate workplace safety concern as organizations face higher temperatures, deteriorating air quality, severe weather, flooding, strong winds, and other environmental extremes. These conditions can affect employees, equipment, worksites, transportation, and routine operations, while also intensifying hazards that may already exist. For safety professionals, climate risk is therefore becoming an operational issue that needs to be recognized and managed alongside conventional workplace hazards.

Boost Consulting & Training has designed this course to help organizations translate climate risk into practical workplace safety decisions. Participants learn to identify climate-related hazards relevant to their operations, assess exposure and vulnerability, determine when changing conditions require intervention, and select appropriate controls for people, tasks, workplaces, and critical activities. The course emphasizes practical risk management rather than climate science, keeping the focus firmly on protecting employees and maintaining safe operations.

The main concept of this course is to integrate climate-related hazards into everyday workplace safety management so

organizations can anticipate changing exposure, adapt controls, and respond before environmental conditions create unacceptable risks.

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Target Audience

- ✓ HSE and occupational health professionals
- ✓ Operations and facilities managers
- ✓ Risk and business continuity professionals
- ✓ Engineering and workplace planning professionals

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Climate Risk & Workplace Safety

Learning Objectives

- ✓ Explain the relationship between climate-related hazards and occupational health and safety.
- ✓ Identify climate risks relevant to different workplaces, activities, and workforce groups.
- ✓ Assess exposure to heat, poor air quality, severe weather, flooding, and other environmental conditions.
- ✓ Determine how climate hazards can intensify existing occupational and operational risks.
- ✓ Identify people, tasks, locations, and infrastructure with higher vulnerability to environmental extremes.
- ✓ Establish practical thresholds and response actions for escalating climate conditions.
- ✓ Select appropriate preventive and protective controls according to the type and level of exposure.
- ✓ Integrate climate risk into workplace safety planning, preparedness, and ongoing HSE management.

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Climate Risk & Workplace Safety

Course Outline

✓ Day 01

Climate Risk in the Workplace

Connecting Climate Hazards to Occupational Safety

- ✓ Understanding how changing environmental conditions translate into workplace health and safety risks
- ✓ Distinguishing chronic exposure, seasonal hazards, extreme events, and rapidly changing conditions
- ✓ Examining how climate hazards can amplify existing physical, operational, and environmental risks

Building the Workplace Climate Risk Profile

- ✓ Identifying climate hazards relevant to specific industries, locations, activities, and work patterns
- ✓ Mapping exposed employees, tasks, equipment, infrastructure, access routes, and critical operations
- ✓ Developing a **Workplace Climate Risk Profile** for a realistic operating environment

Climate Risk & Workplace Safety

Course Outline

✓ Day 02

Managing Heat and Air-Quality Risks

Heat Exposure and Safe Work

- ✓ Assessing how temperature, humidity, physical workload, protective clothing, and exposure duration influence risk
- ✓ Recognizing early signs that environmental conditions are affecting safe human performance
- ✓ Applying scheduling, acclimatization, hydration, work-rest arrangements, shade, ventilation, and exposure reduction

Air Quality and Environmental Exposure

- ✓ Identifying workplace exposure to dust, smoke, pollutants, allergens, and degraded outdoor air
- ✓ Determining when environmental information and workplace conditions require additional protection
- ✓ Conducting an **Environmental Exposure Assessment** and selecting proportionate controls

Climate Risk & Workplace Safety

Course Outline

✓ Day 03

Extreme Weather and Escalating Risk

When Weather Changes the Safety Picture

- ✓ Assessing hazards associated with storms, flooding, strong winds, intense sunlight, and rapidly deteriorating conditions
- ✓ Identifying secondary risks involving electrical systems, structures, equipment, transport, access, and outdoor work
- ✓ Reassessing routine activities when environmental conditions undermine existing safety controls

Making Trigger-Based Safety Decisions

- ✓ Establishing warning levels and operational thresholds for escalating climate hazards
- ✓ Determining when work should continue, be modified, relocated, restricted, postponed, or stopped
- ✓ Managing a **Climate Risk Decision Simulation** involving progressively changing conditions

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Course Outline

✓ Day 04

Controlling Climate Risk at Work

Adapting Controls to Changing Exposure

- ✓ Applying engineering, administrative, scheduling, environmental, and personal protective measures
- ✓ Adjusting staffing, work locations, task duration, equipment use, and supervision according to risk
- ✓ Selecting controls that remain practical and effective as conditions change during operations

Protecting High-Risk People and Operations

- ✓ Identifying workforce groups, activities, locations, and operations requiring additional protection
- ✓ Planning communication, shelter, safe access, evacuation, temporary shutdown, and controlled restart
- ✓ Developing a **Climate Risk Control Plan** for a high-exposure workplace scenario

Climate Risk & Workplace Safety

Course Outline

✓ Day 05

Integrating Climate Risk into Safety Management

Climate Risk in HSE Planning

- ✓ Incorporating climate hazards into risk assessments, work planning, contractor management, inspections, and emergency arrangements
- ✓ Defining responsibilities for monitoring conditions, interpreting warnings, escalating risk, and authorizing operational changes
- ✓ Reviewing incidents, near misses, exposure patterns, and control performance to identify emerging vulnerabilities

Building Long-Term Workplace Readiness

- ✓ Evaluating how future environmental conditions may affect workplace design, workforce exposure, and operational requirements
- ✓ Prioritizing improvements according to risk severity, frequency, feasibility, and operational importance
- ✓ Developing a **Climate Risk & Workplace Safety Action Plan** for organizational implementation

Climate Risk & Workplace Safety

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 7, 2026	Dec. 11, 2026	5 days	4250.00 \$	UAE , Dubai

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