

HUMAN FACTORS AND HSE CULTURE DEVELOPMENT

“Enhancing Safety Performance through Human Factors and Strong HSE Culture”

Schedule

Date	Venue	Fees (Online)
22 – 23 Jun 2026	Online	USD 700 per delegate

Introduction

Human factors play a critical role in safety, health, and environmental (HSE) performance. This course equips participants with the knowledge and skills to understand human behavior, decision-making, and ergonomics in relation to workplace safety. Attendees will also learn strategies to develop and sustain a strong HSE culture that encourages safe behaviors, reduces incidents, and improves overall organizational safety performance.

Through interactive online sessions, case studies, and practical exercises, participants will gain the ability to identify human-related risks, influence behavior positively, and foster a proactive HSE culture. The course emphasizes practical approaches to integrating human factors considerations into safety management systems and organizational practices.

Objectives

By the end of this course, participants will be able to:

- Understand the role of human factors in HSE performance.
- Identify human-related risks and their impact on safety outcomes.
- Apply behavioral science principles to improve workplace safety.
- Develop strategies for fostering a positive HSE culture.
- Promote leadership and accountability in HSE initiatives.
- Implement continuous improvement in HSE performance through culture development.

Why Attend

Participants should attend this course to:

- Gain insight into human behavior and its impact on workplace safety.
- Learn practical methods to reduce human error and incidents.
- Enhance the development of a proactive HSE culture within organizations.
- Improve safety performance and compliance with industry standards.
- Strengthen leadership and staff engagement in HSE initiatives.

Target Audience

This program is designed for:

- HSE managers and officers
- Safety coordinators and supervisors
- Operations and project managers
- Human resources and training professionals
- Professionals responsible for promoting safety culture and behavior-based safety programs

Individual Benefits

Key competencies that will be developed include:

- Understanding human factors and behavioral influences on safety
- Identifying and mitigating human-related risks
- Applying tools and techniques for behavior-based safety programs
- Developing leadership and communication skills for HSE culture
- Promoting proactive and accountable safety behaviors

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved safety performance and reduction in incidents
- Stronger HSE culture and employee engagement
- Enhanced leadership and accountability in safety management
- Integration of human factors into organizational safety systems
- Continuous improvement in HSE practices and compliance

Instructional Methodology

The course follows a blended online learning approach combining theory with practical application:

- Strategy Briefings – Overview of human factors, behavior-based safety, and HSE culture principles
- Case Studies – Examples of human factors influencing safety performance
- Workshops – Exercises to assess and improve HSE culture and behavior-based safety programs
- Peer Exchange – Group discussions on challenges, lessons learned, and best practices
- Tools – Templates for behavior observation, risk assessment, and HSE culture evaluation

Course Outline

Detailed 2-Day Course Outline

Training Hours: 9:00 AM – 5:00 PM Daily Format: 3–4 Learning Modules | Online Breaks: 11:00 & 03:00

Day 1: Human Factors in HSE

Module 1: Introduction to Human Factors (09:00 – 11:00)

- Understanding human behavior and its influence on safety
- Common human errors and their impact on HSE performance
- Role of ergonomics and human-machine interaction

Module 2: Risk Assessment and Mitigation (11:15 – 01:00)

- Identifying human-related risks in the workplace
- Analyzing incidents caused by human factors
- Implementing preventive measures to reduce errors

Day 2: Developing HSE Culture

Module 3: Behavior-Based Safety Programs (01:45 – 03:00)

- Principles and tools for behavior-based safety
- Observations, feedback, and corrective actions
- Engaging employees in proactive safety behavior

Module 4: HSE Leadership and Culture Development (03:15 – 05:00)

- Promoting leadership and accountability in HSE
- Strategies to develop a strong safety culture
- Continuous improvement and sustaining HSE initiatives

Certification

Participants will receive a Certificate of Completion in Human Factors and HSE Culture Development, validating their expertise in understanding human factors, improving behavior-based safety, and fostering a strong HSE culture within organizations.

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