

HUMAN FACTORS IN HAZARDOUS ENVIRONMENTS

Goal:

To enhance participants' ability to make effective, informed decisions and manage risks in hazardous environments through a deeper understanding of human factors and situational awareness.

Target group:

- First responders and EMTs
- Managers, operators, and supervisors in high-risk industries
- Safety professionals and those responsible for people and the environment
- University students and recent graduates entering major accident hazard industries

Highlights:

- Blended learning approach with online modules and on-site practical training.
- Scenario-based exercises simulating real-world hazardous environments.
- Comprehensive focus on human factors, risk management, and ergonomics.

Description

Human Factors in Hazardous Environments is a training course designed for professionals operating in high-stakes settings where milliseconds can determine outcomes. This training delves into the role of human factors and ergonomics, equipping participants to make informed decisions and manage risks effectively. Through a blend of online modules, in-depth classroom sessions, and scenario-based training, participants gain a comprehensive understanding of human behaviour in critical environments, including water rescue, confined spaces, and working at height.

Ideal for first responders, safety managers, and individuals entering major accident hazard industries, this course balances theoretical knowledge with real-world applications to improve situational awareness, decision-making, and post-event debriefing. It is physically demanding and designed for those committed to excelling in emergency response and rescue operations.

Compliance:

Aligned with industry best practices and standards for emergency response and safety.

Previous knowledge:

No specific prerequisites, but familiarity with hazardous work environments is beneficial.

Requirements:

Participants must be physically fit to undertake this demanding course.

Progression:

Complements advanced safety and rescue training modules.

Theoretical elements:

- Fundamentals of human factors and ergonomics
- Decision-making processes in hazardous settings
- Understanding and managing risks effectively

Practical elements:

- Scenario-based training for confined space, water, and height rescues
- Critical decision-making in simulated high-stakes scenarios
- Post-event debriefing with a focus on human factors





Human Factors

 **Course length**
40 hours (5 days)

 **Instructor**
1:6

 **Period of validity**
3 years

 **Certification**
Digital Outreach Rescue certificate of achievement

 **Venue**
Delivered through a combination of online modules and on-site sessions at the Outreach Rescue training facility in Bangor, Wales.