

Fully Online An Introduction to Hazardous Materials (HAZMAT)

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About

Understanding the risks associated with hazardous materials at ports and on-board ships is crucial for ensuring the safety of personnel, the environment, and cargo.

Proper knowledge and handling reduce the likelihood of accidents, chemical spills, and fires, which can have severe consequences. Compliance with safety regulations and effective risk management are essential to maintaining secure and efficient maritime operations.

An Introduction to Hazardous Materials (HAZMAT) is a comprehensive foundational course aimed at individuals working in or around the maritime industry, particularly those involved in the handling, storage, or transport of hazardous materials.

The course provides a thorough overview of the nature and classification of hazardous substances, including the risks they pose to health, safety, the environment, and maritime operations.

It covers key areas such as international regulations, labelling and documentation, transport, storage and emergencies. By developing a clear understanding of these elements, participants will be better equipped to recognise and manage potential hazards, ensure compliance with legal requirements, and promote a culture of safety and responsibility at ports and on-board ships.

This course serves as an essential introduction for those new to the field, as well as a useful refresher for more experienced personnel.

Course Duration

The Introduction to Hazardous Materials (HAZMAT) Course has an expected duration of 1.5 hours.

Target Audience

This course is designed for individuals working in or entering the maritime and port industries who may encounter hazardous materials as part of their roles. It is particularly suited to:

- Port workers and dockside personnel involved in loading, unloading, or handling cargo
- Ship crew members, especially those responsible for cargo operations or safety management
- Logistics and supply chain staff working with maritime freight that includes hazardous goods
- Maritime security and safety officers requiring foundational HAZMAT awareness
- New employees or trainees seeking a basic understanding of hazardous materials in maritime contexts
- Supervisors and operations managers who oversee port or shipboard operations involving dangerous goods
- Regulatory and compliance staff needing awareness of HAZMAT handling procedures and standards

The course is suitable for those with little or no prior knowledge of hazardous materials, as well as personnel seeking a structured refresher on essential principles and safe practices.



+44 (0)161 763 4427



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training@virsec.org











Correct documentation of hazardous materials is essential in ports and on-board ships to ensure the safe and lawful transport, handling, and storage of dangerous goods. Accurate records help identify the nature and risks of each substance, guide emergency response efforts, and ensure compliance with international regulations such as the IMDG Code. Incomplete or incorrect documentation can lead to delays, legal penalties, and serious safety incidents, making it a critical component of effective HAZMAT management in maritime operations.

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Course Aims

The primary aim of An Introduction to Hazardous Materials (HAZMAT) is:

To provide learners with a foundational understanding of hazardous materials in maritime environments, enabling them to identify, handle, and respond to such substances safely and in compliance with relevant regulations.

This aim supports the broader goal of promoting safety, reducing risk, and ensuring legal and procedural compliance when dealing with dangerous goods at ports and on vessels.

Course Learning Objectives

This course aims to provide relevant information to the course candidate with regards to the following points:

- The Common Threats to Maritime Security.
- Recognition of Dangerous Goods & Products.
- The Port Facility Security Plan.
- Appropriate Security Measures.

Course Learning Outcomes

The course learning outcomes are as follows:

- For the learner to identify and understand the common Threats to Maritime Security.
- For the learner to recognise Dangerous Goods & Products.

- For the learner to understand the requirements within a Port Facility Security Plan.
- For the learner to identify and implement Appropriate Security Measures.

Regulations Addressed

This course aims to clarify the necessity of port security as described within:

- Regulation 725/2004 (Regulation (EC) No 725/2004 of the European Parliament and the Council of 31 March 2004 on enhancing ship and port facility security).
- Directive 2005/65 (Directive 2005/65/EC of the European Parliament and the Council of 26 October 2005 on Enhancing Port Security).
- The International Ship & Port Facility (ISPS) Code.

Course Certificate

On completion of this course, you will be able to download a Certificate for 'An Introduction to Hazardous Materials (HAZMAT) Course'.



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Proper safe storage of hazardous materials in ports and on-board ships is vital to prevent accidents, environmental damage, and harm to personnel. Storing substances according to their classification helps avoid dangerous reactions, such as fires, explosions, or toxic releases. Adhering to established guidelines and segregation rules ensures that incompatible materials are kept apart and that containers are secure, clearly labelled, and in good condition. Effective storage practices are a key part of maintaining safety, regulatory compliance, and operational efficiency in maritime environments.





Course Subjects

The course covers the following subject matter:

- Introduction to the Course
- HAZMAT The Basics
- HAZMAT Regulation
- HAZMAT Classification System
- **Classification 1: Explosives**
- **Classification 2: Gases**
- **Classification 3: Flammable Liquids**
- **Classification 4: Flammable Solids**
- Classification 5: Oxidisers
- **Classification 6: Poison & Infectious** Substances
- Classification 7: Radioactive Substances
- **Classification 8: Corrosive Substances**
- **Classification 9: Miscellaneous**
- HAZMAT 'Life Cycle'
- Transport of HAZMAT
- Storage of HAZMAT
- Personal Protective Equipment (PPE)
- In Case of Emergency

Bulk Purchasing

At VIRSEC, we offer competitive bulk discount pricing for companies and organisations looking to purchase our STCW ISPS Proficiency as Ship Security Officer (SSO) courses for multiple employees.

Whether you're equipping a small team, staff, workforce or even an entire crew, we provide scalable pricing options to suit your training needs.

Discounts are applied based on the number of participants, with greater savings available for larger groups.

To discuss your specific requirements and receive a personalised quote, please contact our training coordination team by email at: training@virsec.org, or call us on +44 (0)161 763 4427 and one of our team will happily assist you.









Sample Course Slides

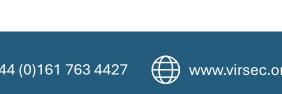


















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Contact Us

VIRSEC Ltd. Canada House 3 Chepstow Street Manchester **M15FW United Kingdom**

T: +44 (0)161 763 4427 E: training@virsec.org W: www.virsec.org

🚬 +44 (0)161 763 4427 🛛 💮 www.virsec.org 🔀 training@virsec.org











