

# € TRAINING

Marine HSE





## Marine HSE

### Introduction:

Marine operations, including ship handling and hazardous cargo transport, demand stringent management to mitigate risks to personnel and the marine environment. This program provides participants with the necessary knowledge and skills to uphold international standards and protect the marine ecosystem during port operations.

### Program Objectives:

At the end of this program the participants will be able to:

- Possess a thorough understanding of marine safety and its interrelation with port operations.
- Demonstrate awareness of optimal practices essential for maintaining marine safety during port operations.
- Exhibit familiarity with universally recognized standards and guidelines concerning marine safety.
- Acquire the confidence and experience necessary to lead organizational efforts in implementing safety management tools, systems, and policies to uphold marine safety.
- Gain practical exposure to effectively handle incidents that could jeopardize marine safety.
- Develop the skills and capability to conduct random internal audits, ensuring compliance with required standards and promoting marine safety culture within the organization.

### Targeted Audience:

- Senior port authorities and officers.
- Port operations personnel who conduct end-to-end operations daily, working on heavy machinery and complicated systems.
- Legal officers and advisors who would be involved in legal issues in the event of an accident that affects the marine environment and compromises on marine safety.
- Human resource professionals and policymakers who need to drive adherence to safety through policies and guidelines.
- Internal and external auditors who would need to check and confirm compliance with internally set standards from time to time.
- External vendors and contractors who also play some part and are involved in some part of marine operations.

## Program Outline

### Unit 1:

#### Importance of Marine Safety

- Protection from loss of life.
- Protection against economic losses.
- Protection of the environment/pollution prevention.
- Maintenance of a good national reputation greater economic development.
- Increase cooperation among regions, countries and continents increased trade and tourism.

### Unit 2:

#### Components of Marine Safety:

- Aids to navigation.
- Seafarers.
- Oil spill response system.
- Vessel traffic system.

#### Types of Port Marine Operations:

- Safe anchorage considering weather/wind.
- Managing and marking wrecks.
- Positioning and maintaining aids to navigation.
- Dredging and other civil engineering work.
- Conducting surveys and disseminating results.

### Unit 3:

#### Components of Port Marine Safety:

- Pollution prevention and Investigation.
- Port patrols/Surveillance.
- Drills and exercises.

- Emergency and contingency planning.
- Container and facility inspections.
- Cargo loading supervision.

#### Unit 4:

##### Ways to Maintain Marine Safety:

- Training and Policies.
- Audits.
- Technology.
- Performance assessment.

##### Key Elements of Successful Safety Management:

- Effective safety policies.
- Effective management structure.
- Planned and systematic implementation approach.
- Performance measurement against standards.
- Experiential learning and application.

#### Unit 5:

##### Features/Gist of an Ideal Safety Policy:

- Safe and efficient organisational asset management.
- Discharge of duties and powers.
- Maintenance of marine equipment to agreed standards.
- Recruitment and training of operational staff to agreed competence levels.
- Appropriate training for emergencies and contingencies.

##### Steps in Risk Assessment as Part of Ensuring Safety:

- Problem identification, scoping and risk assessment design.
- Hazard identification.
- Risk analysis.
- Assessment of risk control measures and Identification of new risk control measures.