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| Course Title | **Advanced Safety Training**  |
| Course Code | MANS-335 |
| Course Type | Required |
| Level | 1st Cycle |
| Year / Semester | 1st Year, Fall Semester |
| Teacher’s Name |  |
| ECTS | 5 | Theory | Laboratory | Simulation | Tutorial |
| 5 | --- | --- | ---- |
| Course Purpose and Objectives | The main objectives of the course are to:* Apply immediate first aid to an injured casualty and a person suffering illness on board
* Understand and apply firefighting procedures at sea and in port with emphasis on organization, tactics and effective command, including liaison with shore-based fire fighters
* Use proper actions involved in taking command of, launching, and handling of a survival craft during an emergency evacuation/abandonment
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| Learning Outcomes | After completion of the course students are expected to be able to: * Apply immediate first aid to an injured casualty and to a person suffering illness on board
* Understand the principals involved in controlling firefighting operations on board a vessel
* Control the firefighting operations on board ship
* Organize and train fire parties
* Inspect and service fire detection and extinguishing systems and equipment
* Investigate and compile reports on incidents involving fire, and
* Know how to carry out firefighting operations on board tankers (oil, chemical, liquefied gas
 |
| Prerequisites | MANS-106  | Required | None |
| Course Content | **Medical First Aid**1. Basic life support
2. Managing incidents
3. Casualty monitoring
4. Management of chest pain
5. Management of shock, bleeding, burns and injuries
6. Management of musculo-skeletal injuries, including sprains, dislocation and fractures
7. Management of the effects of the environment, such as hypothermia and heatstroke
8. Management of medical conditions

**Advance Fire Fighting** 1. Fire prevention
2. Fire on board
3. Causes of fire
4. On board safety
5. Theory of combustion
6. Extinguishing Methods
7. Classification of Fuels
8. Initial Response
9. Team Organization and Equipment
10. Techniques
11. Liaison with Shore Based Fire-fighters
12. Dangerous Goods
13. Management & Control of Injured Persons
14. Fire Detection and Alarm
15. Containment
16. Ventilation of Shipboard Fires
17. Fixed Fire Extinguishing Systems
18. Fire Investigation and Reporting

**Survival Craft and Rescue Boat**1. Safety and Survival
2. Emergency situations
3. Evacuation
4. Survival craft and rescue boats
5. Personal life-saving appliances
6. Survival at sea
7. Emergency radio equipment
8. Handling survival craft and rescue boats in rough weather
9. Actions to take when aboard a survival craft
10. Methods of helicopter rescue
11. Hypothermia
12. Radio equipment
13. First aid
14. Drills in launching and recovering boats
15. Drills in launching life rafts
16. Drills in launching and recovering rescue boats
17. Practical exercises
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| Teaching Methodology | Lectures, sound and video equipment, computer, projector, practical training  |
| Bibliography | 1.
2. **Required Textbooks/Reading:**

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| --- | --- | --- | --- | --- |
| **Authors** | **Title** | **Publisher** | **Year** | **ISBN** |
| IMO | Model Course 2.03 Advanced Fire Fighting | IMO | 2000 | 9789280150872 |
| IMO | Model Course 1.14Medical First Aid | IMO | 2000 | 978-9280161182 |
| IMO | Model Course 1.23Proficiency in Survival Craft and Rescue Boats | IMO | 2000 | 978-9280161151 |

1. **Recommended Textbooks/Reading:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Authors** | **Title** | **Publisher** | **Year** | **ISBN** |
| IMO | Fire Safety Systems (FSS) Code, 2015 Edition | IMO | 2015 | 978928016014 |
| IMO | Life-Saving Appliances inc LSA Code, 2017 Edition | IMO | 2017 | 9789280131505 |

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| Assessment | In-class assignments, practical assessment, final exam. |
| Language | English  |