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## CHAPTER 50 - OFFSHORE INSTALLATION MANAGER (OIM), MODU/SURFACE

### PART I - GENERAL REQUIREMENTS OF APPLICANTS

- 50.1 Every applicant for a certificate as Offshore Installation Manager, MODU/Surface, shall:
- (a) acquire 42 months (based on 12 hour days = 1.5 days qualifying service, actual days on board) service as follows:
    - (i) a minimum of 9 months qualifying service as a barge supervisor, maintenance supervisor, toolpusher, tourpusher, chief mate or equivalent on a surface MODU, and
    - (ii) the remaining 33 months qualifying service on any MODU that is not an inland MODU in any position specified in section 3.38 of TP 2293.
    - (iii) the service referred to in paragraph (a) shall include:
      - (A) assisting in at least 20 cargo transfer operations at sea between a MODU and a supply ship;
      - (B) assisting in at least four complete relocation moves of a MODU/surface unit; and
      - (C) assisting in at least 20 helicopter landings and departures from a MODU;
  - (b) obtain a medical certificate prescribed in the Crewing Regulations;
  - (c) hold a valid and current certificate for each of the following courses:
    - (i) Marine Emergency Duties Course set out in TP 4957, or approved equivalent:
      - (A) Survival Craft (B1);
      - (B) Marine Fire Fighting (B2); and
      - (C) MED C and D or Command and Control Training as per TP 10937;
    - (ii) Marine Advanced First Aid Course (16 hours), or approved equivalent;
    - (iii) MODU Specific courses set out in TP 10937, or approved equivalent;
      - (A) Basic Offshore Survival (BST),
      - (B) Stability and Ballast Control, Surface,
      - (C) Hydrogen Sulphide (H2S) awareness,
      - (D) Supervisor Well Control, and
      - (E) approved company or onboard training as specified in Part II of this chapter to meet the remaining requirements of IMO Assembly Resolution A21/Res. 891;
  - (d) pass a written examination in Navigation Safety (061);
  - (e) Complete an approved course in Meteorology or pass a written examination in Meteorology (073); and
  - (f) pass an oral examination in General Seamanship (165C).

These requirements meet the standard of competence set out in IMO Assembly Resolution A21/Res.891, modified for Offshore Installation Manager, Surface as set out in Part II of this Chapter.

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## PART II-SPECIFICATION OF MINIMUM STANDARD OF COMPETENCE FOR OFFSHORE INSTALLATION MANAGER, MODU SURFACE

This table is based on IMO Assembly Resolution A21/Res.891 table 6.2:

| Competence   | Knowledge understanding and proficiency   | Methods for demonstrating competence  | Criteria for evaluating competence   |
|--|---|---|--|
| 1. Plan and ensure safe ballasting and deballasting operations and accounting of changes in deck loads | <p>Knowledge of, and ability to apply, relevant international and national standards concerning stability</p> <p>Use of loading stability information which may be contained in or derived from stability and trim diagrams, operation manual, and/or computer-based loading and stability programs</p>   | <p><i>Stability and Ballast Control MODU Surface</i> course as set out in TP10937 Chapter 8.1</p>   | <p>Ballasting and deballasting are planned and executed in accordance with established procedures</p> <p>Changes in deck loads are accounted for in accordance with established procedures</p> |
| 2. Operational control of trim, stability and stress   | <p>Understanding of fundamental principles of MOU construction, including principal structural members and required periodic inspections</p> <p>Basic knowledge of effects of welding, and effects of corrosion on the structure</p> <p>Understanding of fundamental principles and the theories and factors affecting trim and stability and measures necessary to preserve trim and stability (afloat mode)</p> <p>Stability criteria for MOUs (static and dynamic), environmental limits and criteria for survival conditions</p> <p>Understanding of inclining experiment, deadweight survey, and their use</p> <p>Use of daily loading calculations</p> <p>Knowledge of the effect:</p> <ol style="list-style-type: none"> <li>.1 on trim and stability of MOU in event of damage to and consequent flooding of a compartment, and countermeasures to be taken (afloat mode)</li> <li>.2 of loading supplies and ballasting in order to keep the unit's stresses within acceptable limits</li> <li>.3 of mooring systems and mooring line failure</li> <li>.4 of pre-loading and leg stresses on self-elevating units</li> <li>.5 of loss of buoyancy</li> </ol> | <p><i>Stability and Ballast Control MODU Surface</i> course as set out in TP10937 Chapter 8.1</p> <p>Successful completion of oral examination 165C</p> | <p>MOU structure, stability and stress conditions are maintained within safe limits at all times</p>   |

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| Competence  | Knowledge understanding and proficiency  | Methods for demonstrating competence  | Criteria for evaluating competence  |
|---|--|---|---|
| 3. Maintain safety and security of MOU personnel and the operational condition of life-saving, fire-fighting and other safety systems | <p>Knowledge of life-saving appliance regulations (International Convention for the Safety of Life at Sea) as applicable to MOUs</p> <p>Organization of fire and abandon ship drills</p> <p>Maintenance of operational condition of life-saving, fire-fighting and other safety systems</p> <p>Actions to be taken to protect and safeguard all persons on board in emergencies, including evacuation</p> <p>Actions to limit damage following a fire, explosion, collision, or grounding</p> <p>Precautions to be taken before onset of heavy weather</p> | <p>Basic Offshore Survival course</p> <p>Supervisor Well Control Course</p> <p>Marine Emergency Duties Course, or equivalent:</p> <p>(1) Survival Craft Cox'n or MED B1;</p> <p>(2) Offshore Fire Team or MED (B2);</p> <p>(3) Command and Control of major emergencies or MED C and D;</p> <p><i>Stability and Ballast Control MODU Surface</i> course as set out in TP10937 Chapter 8.1</p>   | <p>Procedures for monitoring fire-detection and safety systems ensure that all alarms are detected promptly and acted upon in accordance with established emergency procedures</p> <p>Life-saving appliances and fire-fighting equipment are maintained in accordance with prescribed standards</p> |
| 4. Develop emergency and damage control plans and handle emergency situations   | <p>Preparation of contingency plans for response to emergencies</p> <p>Ship construction, including damage control</p> <p>Methods and aids for fire prevention, detection and extinction</p> <p>Functions and use of life-saving appliances</p> <p>Evacuation from MOU</p> <p>Precautions to be taken before onset of heavy weather</p>  | <p>Basic Offshore Survival course</p> <p>Supervisor Well Control Course</p> <p>Marine Emergency Duties Course, or equivalent:</p> <p>(1) Survival Craft Cox'n or MED B1;</p> <p>(2) Offshore Fire Team or MED (B2);</p> <p>(3) Command and Control of major emergencies or MED C and D;</p> <p><i>Stability and Ballast Control MODU Surface</i> course as set out in TP10937 Chapter 8.1</p> <p>Successful completion of oral examination 165C</p> | <p>Emergency procedures are in accordance with the established plans for emergency situations</p>   |
| 5. Respond to emergencies   | <p>Knowledge of:</p> <p>.1 emergency procedures</p> <p>.2 the effect on trim and stability of flooding due to damage, fire-fighting, loss of buoyancy or other reasons and countermeasures to be taken</p> <p>Effectively communicate stability-related information</p>  | <p><i>Stability and Ballast Control MODU Surface</i> course as set out in TP10937 Chapter 8.1</p> <p>Command and Control of major emergencies or MED C and D;</p>   | <p>Established procedures are followed during drills and emergencies</p> <p>Communications are clear and effective</p>  |

| Competence  | Knowledge understanding and proficiency  | Methods for demonstrating competence   | Criteria for evaluating competence   |
|---|--|--|--|
| 6. Maintain MOU safe for transit, station keeping, mooring and dynamic positioning conditions | Knowledge of: <ol style="list-style-type: none"> <li>.1 the 1972 Collision Regulations, as amended</li> <li>.2 navigation and electronic navigational aids appropriate to the type of MOU</li> <li>.3 towing procedures, including recovery of tow</li> <li>.4 sea-bed composition and characteristics</li> <li>.5 behaviour of mooring systems and force distributions, including the effect of environmental conditions</li> <li>.6 consequences of mooring system failure</li> <li>.7 anchor placement and recovery, and working with anchor handling vessels</li> <li>.8 principles of dynamic positioning system, including capabilities and limitations of thrusters, power systems and maximum allowable position offsets (For Dynamic Position equipped vessels only)</li> </ol> | <ol style="list-style-type: none"> <li>.1-.2 Successful completion of examination 061 (Colregs)/or approved courses</li> <li>.3-.4-.5-6-.7 Experience in rig moves and anchor handling as specified in regulation and completion of rig moving procedures or approved courses.</li> </ol> On job training (OJT)<br>Spread mooring systems or approved course<br><ol style="list-style-type: none"> <li>.8 Successful completion of oral examination 165C (also for .3-4-.5-.6-.7)</li> </ol> | Transit, station keeping, mooring and dynamic positioning operations are within safe limits at all times<br>Communications are effective and comply with established procedures              |
| 7. Forecast weather and oceanographic conditions  | Knowledge of: <ol style="list-style-type: none"> <li>.1 characteristics of weather systems</li> <li>.2 ability to apply available meteorological information to ensure safety of MOU and, upon request, supply other vessels or aircraft with information</li> <li>.3 sources of weather information</li> <li>.4 the effects of weather on the MOU environmental limits</li> </ol>   | <ol style="list-style-type: none"> <li>.1 to .3 Successful completion of wind, waves and weather or approved course or written examination 073 (meteorology)</li> <li>.4 rig moving procedures or approved course</li> </ol> Successful completion of oral examination 165C. (.4)  | The likely weather conditions for a determined period are based on all available information<br>Actions taken to maintain safety of navigation and operations minimize risk to safety of MOU |
| 8. Plan and ensure safe transfer of personnel   | Knowledge of : <ol style="list-style-type: none"> <li>.1 precautions to be taken during transfer of personnel</li> <li>.2 use of the personnel basket</li> <li>.3 helicopter transfers</li> <li>.4 vessel transfers</li> <li>.5 effect of environmental conditions on method of personnel transfer</li> </ol>  | Basic Offshore Survival (BST) Course<br>Experience in helicopter landings and departures as specified in 50.1 (a) iii (C)<br>Successful Completion of Oral Examination (165C)<br>Command and Control of major emergencies  | Personnel transfers are conducted safely   |

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| Competence   | Knowledge understanding and proficiency  | Methods for demonstrating competence   | Criteria for evaluating competence  |
|--|--|--|---|
| 9. Plan and ensure safe loading, stowage, securing and handling of supplies, including dangerous goods | Knowledge of:<br>.1 the effect on trim and stability of cargoes and cargo operations<br>.2 safe handling, stowage and care of equipment, supplies and dangerous goods<br>.3 crane and lifting equipment, and their inspections<br>.4 procedures for loading and discharge of helicopters and supply vessels<br>.5 precautions during loading, and unloading, and use of dangerous, hazardous, or harmful goods       | .1 <i>Stability and Ballast Control MODU Surface</i> course as set out in TP10937 Chapter 8.1<br>.4 and .5 Experience in helicopter landings and departures as specified in 50.1 (a) iii (C) and experience in at least 20 cargo transfer as specified in 50.1 (a) iii (A)<br>.2, .3 and .5 Successful completion of oral examination 165C/written examination Cargo 123 | The likely weather conditions for a determined period are based on all available information<br>Stowage and securing of cargoes and supplies ensures that stability and stress conditions remain within safe limits, and are in accordance with established guidelines and legislative requirements<br>Information on dangers, hazards and special requirements is recorded in a suitable format for easy reference in the event of an incident |
| 10. Prevention of pollution  | Methods and aid to prevent pollution of the environment<br>Knowledge of:<br>.1 pollution prevention systems and controls<br>.2 pollution control procedures, including the unit's MARPOL I/26 and article 3 of OPRC Convention Shipboard Oil Pollution Emergency Plan, MARPOL Annex V Waste Management Plan, and any plan dealing with dangerous/hazardous goods   | Assessment of OJT checklist<br>Successful completion of oral examination 165C  | Operations are conducted without hazarding the environment through spills of oil or dangerous/hazardous goods, or garbage   |
| 11. Monitor and control safe working practices   | Knowledge of safe working practices, such as:<br>.1 occupational safety, health and hygiene<br>.2 hazardous areas<br>.3 permits to work<br>.4 work over water<br>.5 work in confined spaces<br>Knowledge of personnel training, organization and communication<br>Understanding and inspection of safety equipment<br>Identify, evaluate, control new hazards through engineering controls or safe working practices | Assessment of OJT checklist<br>Successful completion of oral examination 165C  | Operations minimize hazards to personnel  |

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| <b>Competence</b>  | <b>Knowledge understanding and proficiency</b>  | <b>Methods for demonstrating competence</b>  | <b>Criteria for evaluating competence</b>   |
|--|---|--|---|
| 12. Monitor and control compliance with legislative requirements and measures to ensure safety of life at sea and the protection of the marine environment | <p>Knowledge of international maritime law embodied in international agreements and conventions</p> <p>Regard should be paid to the following subjects:</p> <ol style="list-style-type: none"> <li>.1 certificates and other documents required to be carried on board MOUs by international conventions and/or agreements</li> <li>.2 responsibilities under the relevant requirements of the: <ul style="list-style-type: none"> <li>- International Convention on Load Lines;</li> <li>- International Convention for the Safety of Life at Sea;</li> <li>- International Convention for the Prevention of Pollution from Ships;</li> </ul> </li> <li>.3 maritime declarations of health and the requirements of the International Health Regulations</li> <li>.4 responsibilities under international instruments affecting the safety of the MOU, visitors, crew and cargo</li> <li>.5 methods and aids to prevent pollution of the marine environment by MOUs</li> <li>.6 national legislation for implementing international agreements and conventions</li> </ol> | Successful completion of oral examination 165C   | <p>Procedures for monitoring operations and maintenance comply with legislative requirements</p> <p>Potential non-compliance is promptly and fully identified</p> <p>Planned renewal and extension of certificates ensures continued validity of surveyed items and equipment</p> |
| 13. Monitor and control industrial operations impacting maritime safety  | <p>Knowledge and appreciation of the interrelationship between marine operations and specific industrial activities including, where appropriate, the following:</p> <ol style="list-style-type: none"> <li>.1 drilling and maintenance, where appropriate, of wells</li> <li>.2 construction and offshore maintenance and repair</li> <li>.3 production</li> <li>.4 accommodation support</li> <li>.5 lifting operations</li> <li>.6. pipe-laying</li> <li>.7 diving</li> <li>.8 fire-fighting support</li> </ol>  | <p>Assessment of OJT checklist</p> <p>Successful completion of oral examination 165C</p> | Industrial operations are carried out safely  |