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TP 2293 E	<i>THE EXAMINATION AND CERTIFICATION OF SEAFARERS</i>			

## CHAPTER 54 - OFFSHORE INSTALLATION MANAGER (OIM), MODU/SELF-ELEVATING

### PART I - GENERAL REQUIREMENTS OF APPLICANTS

- 54.1 Every applicant for a certificate as Offshore Installation Manager, MODU/Self-Elevating, 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 or tourpusher on a self-elevating 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/self-elevating 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 or 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, OIM Self-elevating,
      - (C) Hydrogen Sulphide (H<sub>2</sub>S) 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, Self-elevating 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 SELF ELEVATING**

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

<b>Competence</b>	<b>Knowledge understanding and proficiency</b>	<b>Methods for demonstrating competence</b>	<b>Criteria for evaluating competence</b>
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>	<i>Stability and Ballast Control MODU Self-elevating</i> course as set out in TP10937 Chapter 8.2	<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> <p>.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)</p> <p>.2 of loading supplies and ballasting in order to keep the unit's stresses within acceptable limits</p> <p>.3 of mooring systems and mooring line failure</p> <p>.4 of pre-loading and leg stresses on self-elevating units</p> <p>.5 of loss of buoyancy</p>	<p><i>Stability and Ballast Control MODU Self-elevating</i> course as set out in TP10937 Chapter 8.2</p> <p>Successful completion of oral examination 165C</p>	MOU structure, stability and stress conditions are maintained within safe limits at all times



<b>Competence</b>	<b>Knowledge understanding and proficiency</b>	<b>Methods for demonstrating competence</b>	<b>Criteria for evaluating competence</b>
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            Organization of fire and abandon ship drills            Maintenance of operational condition of life-saving, fire-fighting and other safety systems            Actions to be taken to protect and safeguard all persons on board in emergencies, including evacuation            Actions to limit damage following a fire, explosion, collision, or grounding            Precautions to be taken before onset of heavy weather</p>	<p>Basic Offshore Survival course            Supervisor Well Control Course            Marine Emergency Duties Course, or equivalent:            (1) Survival Craft Cox'n or MED B1;            (2) Offshore Fire Team or MED (B2);            (3) Command and Control of major emergencies or MED C and D;  <i>Stability and Ballast Control MODU Self-elevating</i> course as set out in TP10937 Chapter 8.2</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            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            Ship construction, including damage control            Methods and aids for fire prevention, detection and extinction            Functions and use of life-saving appliances            Evacuation from MOU            Precautions to be taken before onset of heavy weather</p>	<p>Basic Offshore Survival course            Supervisor Well Control Course            Marine Emergency Duties Course, or equivalent:            (1) Survival Craft Cox'n or MED B1;            (2) Offshore Fire Team or MED (B2);            (3) Command and Control of major emergencies or MED C and D;  <i>Stability and Ballast Control MODU Self-elevating</i> course as set out in TP10937 Chapter 8.2            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:            .1 emergency procedures            .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            Effectively communicate stability-related information</p>	<p><i>Stability and Ballast Control MODU Self-elevating</i> course as set out in TP10937 Chapter 8.2            Command and Control of major emergencies or MED C and D;</p>	<p>Established procedures are followed during drills and emergencies            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: <ul 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> </ul>	<ul style="list-style-type: none"> <li>.1 Successful completion of examination 061 (Colregs)</li> <li>.2 not applicable</li> <li>.3-.4 Experience in rig moves and anchor handling as specified in regulation and completion of rig moving procedures or approved course</li> <li>.5 not applicable</li> <li>.6-.7 Spread mooring systems or approved course</li> <li>.8 not applicable</li> </ul> Successful completion of oral examination 165C. (.4)	Transit, station keeping, mooring and dynamic positioning operations are within safe limits at all times Communications are effective and comply with established procedures
7. Forecast weather and oceanographic conditions	Knowledge of: <ul 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> </ul>	<ul 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> </ul> Successful completion of oral examination 165C. (.4)	The likely weather conditions for a determined period are based on all available information 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 : <ul 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> </ul>	Basic Offshore Survival (BST) Course Experience in helicopter landings and departures as specified in 54.1 (a) iii (C) Successful Completion of Oral Examination (165C) Command and Control of major emergencies	Personnel transfers are conducted safely



Competence	Knowledge understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
<p>9. Plan and ensure safe loading, stowage, securing and handling of supplies, including dangerous goods</p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> <li>.1 the effect on trim and stability of cargoes and cargo operations</li> <li>.2 safe handling, stowage and care of equipment, supplies and dangerous goods</li> <li>.3 crane and lifting equipment, and their inspections</li> <li>.4 procedures for loading and discharge of helicopters and supply vessels</li> <li>.5 precautions during loading, and unloading, and use of dangerous, hazardous, or harmful goods</li> </ul>	<ul style="list-style-type: none"> <li>.1 <i>Stability and Ballast Control MODU Self-elevating</i> course as set out in TP10937 Chapter 8.2</li> <li>.4 and .5 Experience in helicopter landings and departures as specified in 54.1 (a) iii (C) and experience in at least 20 cargo transfer as specified in 54.1 (a) iii (A)</li> <li>.2, .3 and .5 Successful completion of oral examination 165C.</li> </ul>	<p>The likely weather conditions for a determined period are based on all available information</p> <p>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</p> <p>Information on dangers, hazards and special requirements is recorded in a suitable format for easy reference in the event of an incident</p>
<p>10. Prevention of pollution</p>	<p>Methods and aid to prevent pollution of the environment</p> <p>Knowledge of:</p> <ul style="list-style-type: none"> <li>.1 pollution prevention systems and controls</li> <li>.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</li> </ul>	<p>Assessment of OJT checklist</p> <p>Successful completion of oral examination 165C</p>	<p>Operations are conducted without hazarding the environment through spills of oil or dangerous/hazardous goods, or garbage</p>
<p>11. Monitor and control safe working practices</p>	<p>Knowledge of safe working practices, such as:</p> <ul style="list-style-type: none"> <li>.1 occupational safety, health and hygiene</li> <li>.2 hazardous areas</li> <li>.3 permits to work</li> <li>.4 work over water</li> <li>.5 work in confined spaces</li> </ul> <p>Knowledge of personnel training, organization and communication</p> <p>Understanding and inspection of safety equipment</p> <p>Identify, evaluate, control new hazards through engineering controls or safe working practices</p>	<p>Assessment of OJT checklist</p> <p>Successful completion of oral examination 165C</p>	<p>Operations minimize hazards to personnel</p>



Competence	Knowledge understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
<p>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>	<p>Knowledge of international maritime law embodied in international agreements and conventions            Regard should be paid to the following subjects:            .1 certificates and other documents required to be carried on board MOUs by international conventions and/or agreements            .2 responsibilities under the relevant requirements of the:            - International Convention on Load Lines;            - International Convention for the Safety of Life at Sea;            - International Convention for the Prevention of Pollution from Ships;            .3 maritime declarations of health and the requirements of the International Health Regulations            .4 responsibilities under international instruments affecting the safety of the MOU, visitors, crew and cargo            .5 methods and aids to prevent pollution of the marine environment by MOUs            .6 national legislation for implementing international agreements and conventions</p>	<p>Successful completion of oral examination 165C</p>	<p>Procedures for monitoring operations and maintenance comply with legislative requirements            Potential non-compliance is promptly and fully identified            Planned renewal and extension of certificates ensures continued validity of surveyed items and equipment</p>
<p>13. Monitor and control industrial operations impacting maritime safety</p>	<p>Knowledge and appreciation of the interrelationship between marine operations and specific industrial activities including, where appropriate, the following:            .1 drilling and maintenance, where appropriate, of wells            .2 construction and offshore maintenance and repair            .3 production            .4 accommodation support            .5 lifting operations            .6 pipe-laying            .7 diving            .8 fire-fighting support</p>	<p>Assessment of OJT checklist            Successful completion of oral examination 165C</p>	<p>Industrial operations are carried out safely</p>