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CHAPTER 53 - MAINTENANCE SUPERVISOR, MODU/SURFACE ENDORSEMENT

PART I - GENERAL REQUIREMENTS OF APPLICANTS

- 53.1 Every applicant for an endorsement as Maintenance Supervisor, MODU/Surface, shall:
- (a) hold a certificate of competency as a 1st Class Engineer (Motor);
 - (b) complete 3 months qualifying service on a MODU Surface while holding a minimum certificate of competency as a 2nd Class Engineer (Motor);
 - (c) obtain valid and current medical certificate as prescribed in the Crewing Regulations;
 - (d) hold a valid and current certificate for each of the following courses:
 - (i) Marine Emergency Duties Courses as set out in TP 4957 or approved equivalent,
 - (ii) Marine Advanced First Aid Course (16 hours) or approved equivalent, and
 - (iii) Propulsion Plant Simulator Course Level II, set out in TP 10935;
 - (e) obtain a certificate of completion for each of the following Mobile Offshore Drilling Unit Courses, set out in TP 10937, or approved equivalent:
 - (i) Hydrogen Sulphide (H₂S) awareness;
 - (ii) Basic Offshore Survival; and
 - (iii) 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; and
 - (f) pass an oral examination.

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

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PART II - SPECIFICATION OF MINIMUM STANDARD OF COMPETENCE FOR MAINTENANCE SUPERVISOR, MODU SURFACE

This table is based on IMO Assembly Resolution A21/Res. 891 table 6.5:

Competence	Knowledge understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
1. Use appropriate tools for fabrication and repair operations typically performed on MOUs	Characteristics and limitations of materials used in construction and repair Characteristics and limitations of processes used for fabrication and repair Properties and parameters considered in the fabrication and repair of systems and components Application of safe working practices in the workshop environment	MODU Specific Oral Examination	holding a 1 st Class Engineer (motor) Certificate
2. Use hand tools and measuring equipment for dismantling, maintenance, repair and re-assembly of on-board plant and equipment	Design characteristics and selection of materials in construction of equipment Interpretation of machinery drawings and hand tools Operational characteristics of equipment and systems	MODU Specific Oral Examination	holding a 1 st Class Engineer (motor) Certificate
3. Use hand tools, electrical and electronic measuring and test equipment for fault-finding, maintenance and repair operations	Safety requirements for working on electrical systems Construction and operational characteristics of on-board AC and DC electrical systems and equipment Construction and operation of electrical test and measuring equipment	MODU Specific Oral Examination	holding a 1 st Class Engineer (motor) Certificate
4. Operate alternators, generators and control systems	Generating plant Appropriate basic electrical knowledge and skills Preparing, starting, coupling and charging over alternators or generators Location of common faults and action to prevent damage Control systems Location of common faults and action to prevent damage	MODU Specific Oral Examination	holding a 1 st Class Engineer (motor) Certificate
5. Maintain engineering systems, including control systems	Appropriate basic mechanical knowledge and skills Safe isolation of electrical and other types of plant and equipment required before personnel are permitted to work on such plant or equipment Undertake maintenance and repair to plant and equipment	MODU Specific Oral Examination	holding a 1 st Class Engineer (motor) Certificate

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Competence	Knowledge understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
6. Operate, monitor and evaluate engine and machinery performance and capacity	Operation and maintenance of: engines auxiliary machinery including pumping and piping systems, associated control systems and, if appropriate, jacking systems	MODU Specific Oral Examination	holding a 1 st Class Engineer (motor) Certificate
7. Detect and identify the cause of machinery malfunctions and correct faults	Detection of machinery malfunction and location of faults to prevent or minimize damage	MODU Specific Oral Examination	holding a 1 st Class Engineer (motor) Certificate
8. Organize safe maintenance and repair procedures	Marine engineering practice Organizing and carrying out safe maintenance and repair procedure	MODU Specific Oral Examination	holding a 1 st Class Engineer (motor) Certificate
9. Operate and maintain survival craft and launching systems and systems for fire prevention, detection and extinction	Maintenance of operational condition of survival craft and launching systems and systems for fire prevention, detection and extinction Actions taken to protect the unit and its personnel and limit damage following fire, explosion, collision or grounding	MODU Specific Oral Examination completion of MED training or approved equivalent	holding a 1 st Class Engineer (motor) Certificate
10. Prevention of pollution	Methods and aid to prevent pollution of the environment Knowledge of relevant international and national requirements, regard should be paid especially to: 1. certificates and other documents required by international conventions or national law, how they may be obtained, and their period of validity 2. responsibilities under relevant international agreements	MODU Specific Oral Examination	holding a 1 st Class Engineer (motor) Certificate
11. Ensure safe working practices	Safe working practices	MODU Specific Oral Examination 3 month service on board MODU	holding a 1 st Class Engineer (motor) Certificate