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| Overview | This standard covers the competence required to undertake basic maintenance, restoration and repair of vessel machinery and systems whilst on board. It includes the basic maintenance of mechanical, electrical, telecommunication and navigation systems.  **Target Group**  This standard applies to individuals at the operational level with responsibility for the basic maintenance of mechanical, electrical, telecommunications and navigation systems on vessels operating in inland or coastal waters. |

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| **Performance criteria**  You must be able to: | 1. prepare a work schedule to maintain machinery and systems and their components in accordance with:   P1.1 a maintenance plan  P1.2 established regulations  P1.3 procedures  P1.4 guidelines  P1.5 safety practice  P1.6environmental protection   1. carry out isolation and earthing procedures correctly, in accordance with the type and nature of the specific equipment 2. confirm that work areas, machinery and equipment are safe for work to proceed, and comply with legislative requirements, codes of practice, isolation procedures, Permit to Work procedures and environmental concerns 3. carry out the maintenance, checks and tests in accordance with established safety rules and regulations, manufacturers' instructions and good practice 4. identify details for further action where equipment and parts fail to meet required performance after maintenance 5. restore the equipment or system to the correct settings and specification using the appropriate method 6. recognise variances to specification, plans and schedules and implement effective corrective action 7. bring machinery and systems back into service, according to correct procedures which meet vessel standards, operational requirements and specifications 8. complete documentation and records accurately and to meet future requirements |

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| Knowledge and understanding  You need to know and understand: | 1. the working principles and constructional details of marine machinery and systems 2. the possible hazards associated with the work area, and with equipment and machinery in the work area 3. the requirements and procedures for isolating and de-isolating machinery and systems 4. your organisation's requirements for Permits to Work 5. the use of tools and equipment for maintenance and repair of equipment 6. routine test procedures and technical requirements of tests 7. the correct settings for telecommunications and navigation equipment and systems 8. the correct settings for mechanical and electrical machinery and systems 9. the adjustments required to maintain correct performance 10. the application of statutory regulations and guidelines, organisational instructions and guidance, and vessel contingency plans |

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