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| Overview | This standard covers the competence of defining, planning and resourcing the maintenance of vessel engineering and related systems, equipment and structure.  **Target Group**  This standard applies to individuals at the management level with responsibility for developing maintenance implementation plans for engineering systems on vessels of any type and of any registered power. |

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| **Performance criteria**  You must be able to: | 1. correctly identify the overall maintenance requirements for marine engineering systems in accordance with statutory and organisational requirements, current data and forecast condition of machinery and equipment with respect to the known rates of deterioration and wear 2. ensure continued validity of survey items and equipment by meeting requirements for renewal and extension of certificates 3. accurately identify the priority levels and timing of the maintenance taking into account overall ship safety, commercial operations, balancing maintenance evenly over the available time scale and co-ordinate with statutory and classification society surveys 4. produce achievable and relevant maintenance requirements and plans to match the demands of safe and efficient plant operation within the constraints of time, available manpower and resources and minimising conflict with other operational activities 5. provide work methods in close consultation with other departments consistent with current operational priorities and legal requirements and to ensure that maintenance objectives are achieved with optimised use of available material, capital and people 6. record plans in a suitable format for reference and to comply with statutory and organisational requirements 7. inform personnel of the nature of their response in the event of unplanned or unscheduled maintenance 8. accurately match the resource requirements with the projected demand of the maintenance plans and schedules, organisational budgets and accounting for all relevant aspects of supply 9. achieve the restoration of existing parts within budgetary and re-use constraints |

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| Knowledge and understanding  You need to know and understand: | 1. the working principles, constructional details and maintenance requirements of vessel systems and equipment 2. how to determine and forecast maintenance requirements from operating conditions 3. the requirements for statutory and classification society survey and certification 4. how to determine and schedule maintenance priorities and timing 5. how to exercise effective budgetary control 6. the characteristics and limitations of materials and processes used in the construction and repair of ships and equipment 7. how to select the most appropriate repair method 8. how to determine and specify safe and effective procedures and work methods 9. the delegation of responsibilities for maintenance of the vessel's machinery and the level of supervision required by individuals 10. statutory restrictions on the working hours of individuals 11. statutory and organisational reporting requirements 12. the importance and use of records for commercial and legislative purposes 13. how to evaluate and apply Statutory Regulations and guidelines, organisational instructions and guidance and vessel contingency plans |

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