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| --- | --- | --- | --- |
| Seafarer ID |  | Date and Time |  |
|  | | | |
| Name |  | Exam location |  |
|  |  |  |  |
| Duration |  | Examiner |  |

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| Certificate Type |  | Result |  |
|  |  |  |  |
| Certificate Capacity | Engineer Watchkeeper (Steam and Motor) | Purpose |  |

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| **Boilers** | | | **Steam Propulsion** (cont) | | | **Materials** | | |
| Water gauge | | | Turbo alternators | | | Properties | C3 |  |
| Local | A1 |  | Operation and construction | B2 |  | Destructive and non-destructive testing | C3 |  |
| Remote | A3 |  | Associated Systems & Equipment | C3 |  | **Propellers and Thrusters** | | |
| Manhole doors | A1 |  | **Water treatment** | | | Fixed pitch | C3 |  |
| Feed check V/Vs | A2 |  | Evaporators | B3 |  | Controllable pitch | | |
| Blowdowns V/Vs | A2 |  | Distillers | B3 |  | Operating system | C3 |  |
| Safety Valves | A3 |  | Ion exchange | C3 |  | Stern tube bearing | C3 |  |
| Operations | | | Reverse osmosis | C3 |  | Screw Shafts | C3 |  |
| Furnace purging | A1 |  | Testing | B2 |  | Cross thrusters | | |
| Priming and foaming | C3 |  | Chemicals | B2 |  | Fixed and CP prop | C3 |  |
| Raising steam | A3 |  | **Feed Systems** | | | Voith Schneider etc | C3 |  |
| Shutting down | A3 |  | Arrangement | B3 |  | DP systems | C3 |  |
| Superheater fires | A1 |  | Feed pumps | B2 |  | **Dry Docking** | | |
| Uptake fires | A1 |  | Deaerators and heaters | C3 |  | Supply of fire fighting water | A3 |  |
| Water hammer | C3 |  | Air ejector | C3 |  | Supply of electrical power | C3 |  |
| Water testing | B2 |  | Ext pumps | C3 |  | Stability | C3 |  |
| Construction arrangement | B3 |  | Condenser | C3 |  | Ships Structure | C3 |  |
| Automatic controls | C3 |  | Water testing | B2 |  | **Tanks** | | |
| Combustion | C3 |  | Auto controls | C3 |  | Safety precautions | | |
| Associated Systems & Equipment (EA) | C3 |  | **Steering Gears & Rudders** | | | Entering | A1 |  |
| **Diesel Propulsion** | | | Emergency Operation | A2 |  | **Stability** | | |
| Operation | | | Construction | C3 |  | Free surface | C3 |  |
| Air line explosion | A1 |  | Control | C3 |  | Damage control | C3 |  |
| Combustion | C3 |  | Lubrication | B3 |  | **Electricity** | | |
| Crankcase explosion | A1 |  | **Air compressors** | | | Emergency generators | | |
| Emergency | A2 |  | Safety devices | | | Operation | B2 |  |
| Fuel consumption | C3 |  | Air line | A2 |  | Testing | C3 |  |
| Manoeuvring | A2 |  | Compressor | A2 |  | Fault detection | C3 |  |
| Parameters | B1 |  | Receiver | A2 |  | AC generators | | |
| Scavenge fires | A1 |  | Operation | A3 |  | Construction | C3 |  |
| Shutting down | A2 |  | Lubrication | B3 |  | Control equipment | C3 |  |
| Warming through | A2 |  | Starting air | C2 |  | Fault detection | C3 |  |
| Associated Systems & Equipment | C3 |  | Service and control air | C3 |  | Operation | B3 |  |
| Slow, medium and high speed | | | Receivers | C2 |  | Protection devices | A3 |  |
| Alignment | C3 |  | Automation | C3 |  | DC Generators | | |
| Automation | C3 |  | **Fire** | | | As per AC | B2 |  |
| Combustion | C3 |  | Prevention | A1 |  | Distribution | | |
| Construction | C3 |  | Extinction | A1 |  | Distribution boards | C3 |  |
| Diesel electric | C3 |  | BA sets | A1 |  | Drip proof | C3 |  |
| Gear boxes and clutches | C3 |  | Hoses extinguishers | A1 |  | Electric shock | A1 |  |
| Lubrication | B3 |  | Procedures | A2 |  | Emergency switchboard | B3 |  |
| Manoeuvring controls | A2 |  | Fixed installations | A2 |  | Fault detection | C3 |  |
| Protection devices | A3 |  | Detection | C3 |  | Flame proof | C3 |  |
| Thrust bearing | C3 |  | Sensors, systems | C3 |  | Intrinsically safe | C3 |  |
| Timing | C3 |  | UMS requirements | C3 |  | Isolation | A1 |  |
| Turbo chargers | C3 |  | Structural fire protection | C3 |  | Main switchboard | B3 |  |
| Vibration dampers | C3 |  | **Pumping Systems** | | | Non-earthed and earth neutral | C3 |  |
| Diesel alternators | B2 |  | Fire main | A3 |  | Protection devices | A3 |  |
| Water treatment | B2 |  | Oily water separator | A3 |  | Transformers | C3 |  |
| **Steam Propulsion** | | | Bunkering | A3 |  | Two wire | C3 |  |
| Operation | | | Bilge and ballast systems | B2 |  | Motors | | |
| Emergency | A1 |  | Salt water system | B2 |  | AC: single and three phase | C3 |  |
| Manoeuvring | A2 |  | Fresh water cooling | C3 |  | **Deck Machinery** | | |
| Parameters | B1 |  | Sewage plant | C3 |  | Davits | B3 |  |
| Shutting down | A2 |  | Fuel oil system | B3 |  | Winches | C3 |  |
| Warming through | A2 |  | Diesel oil system | B3 |  | Windlass | C3 |  |
| Turbines | | | Inert gas system | C3 |  | Cranes | C3 |  |
| Automation | C3 |  | Lubricating oil system | B3 |  | Derricks | C3 |  |
| Flex coupling | C3 |  | Cargo system | C3 |  | Hatches | C3 |  |
| Gear boxes | C3 |  | Sanitary system | C3 |  | Other | C3 |  |
| Gland steam | B3 |  | Purifiers, clarifiers | C3 |  | **Automation and Control** | | |
| Impulse, reaction | C3 |  | Heaters | C3 |  | Bridge control | C3 |  |
| Lubrication | B3 |  | Pumps, positive displacement, etc | C3 |  | UMS | | |
| Manoeuvring V/V | C3 |  | **Refrigeration Systems** | | | Fault detection | C3 |  |
| Protection devices | A3 |  | Safety | A2 |  | Transfer from manual to auto | A3 |  |
| Thrust bearing | C3 |  | Direct and indirect expansion | C3 |  | Measuring devices | C3 |  |
| Turbo electric | C3 |  | Air conditioning | C3 |  | Testing | B3 |  |
|  |  |  | Compressors | C3 |  | Calibration | C3 |  |

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| **Machinery Records** | | |
| Oil Record Book | B3 |  |
| Log books | C3 |  |
| Trend recording | C3 |  |
| Official records | C3 |  |
| **Maritime Law** | | |
| MARPOL | C3 |  |
| SOLAS | C3 |  |
| Marine Orders | C3 |  |
| ISM Code | C3 |  |
| ISPS Code | C3 |  |
| Other | C3 |  |
| **Management** | | |
| Training of Engine-room staff | C2 |  |
| Mgt and organization of ER staff / dept | C2 |  |
| **English Language** | | |
| Comprehension of the English language | A1 |  |