

Part B

Course Outline

MTI shall ensure that all trainees shall be given sufficient time to learn, understand and perform the practical training component of this course. It is understood that the number of hours for demonstration/practical work specified in the table below is indicative and allocated per group. Training hours shall be extended depending on trainees' successful acquisition of the required competence.

Subject Area	Time Allotment (in hours)	
	Theoretical	Demonstration/ Practical Work
Course Introduction	1.0	-
<i>Competence: Manage Operation of Electrical and Electronic Control Equipment (Theoretical Knowledge)</i>		
1. Marine Electrotechnology, Electronics, Power Electronics, Automatic Control Engineering and Safety Devices	7.0	3.0
2. Design Features and System Configurations of Automatic Control Equipment and Safety Devices for main engine, generator and distribution system, and steam boiler	9.0	4.0
3. Design features and system configurations of operational control equipment for electrical motors	8.0	3.0
4. Design Features of High-Voltage Installations	3.0	2.0
5. Features of hydraulic and pneumatic control equipment	8.0	3.0
<i>Competence: Manage Troubleshooting Restoration of Electrical and Electronic Control Equipment to Operating Condition (Practical Knowledge)</i>		
6. Troubleshooting of Electrical and Electronic Control Equipment	3.0	2.0
7. Function Test of Electrical, Electronic Control Equipment and Safety Devices	3.0	2.0
8. Troubleshooting of Monitoring Systems	4.0	2.0

9. Software Version Control	3.0	2.0
Sub-total	49.0	23.0
Total Training Hours	72.0	

Assessment		
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Notes:

1. *It is the responsibility of the MTI to determine the number of hours needed for the conduct of assessment both theoretical and practical as may be applicable taking into account the number of trainees, number of assessors, number of equipment, vis-à-vis the number of tests items for theoretical and the number of exercises for practical assessment.*
2. *Time allotted in the practical demonstration shall be construed as the time allotted for 24 trainees, provided that all trainees have demonstrated the task or scenario specific for management level responsibility, and if the practical exercises are conducted by group, the rotation of roles is required.*