



Electro-Technical Officer Competency Evaluation (ETOCE)

This evaluation program aims to determine the present level of knowledge, understanding, and skills of electricians and electrotechnical personnel in their function as operational-level officers in order to establish their readiness for shipboard assignment on their assigned tasks.

Evaluation Outcome/s

After the evaluation, the Assessor must be able to:

1. Determine the level of competency of electricians or electro-technical officers by identifying their strengths and training needs on the following areas:
 - Electrical Engineering: Fundamentals and Safety
 - Marine Electro-Technology: Electrical Machines, Drives and Equipment
 - Electronics and Power Electronics
 - Automation, Instrumentation, Alarms and Control Systems
 - Refrigeration, Heating, Ventilation and Air- Conditioning Systems
 - Pneumatic and Hydraulic Systems
 - Electro-Hydraulics and Electro-Pneumatics
 - Automation and Control of Main Propulsion and Auxiliary Machineries
 - Generators, Electrical Power Distribution Systems and Equipment
 - Marine High Voltage Systems
 - Computer and Data Networks
 - Bridge Navigation Equipment and Ship Communication Systems
 - Maintenance and Repairs
 - Use of Electrical Testing and Measuring Tools and Equipment
 - Interpreting Schematic Diagrams
 - Detecting Malfunctions and Restoring Operations
 - Safe Working Practices

2. Recommend training/s to enhance knowledge, understanding and skills on the identified area/s that need improvements.

Entry Standard/s:

Electro-Technical Personnel