

# Government of Tuvalu – Job Description



<b>Position Title:</b>	Electrical Technical Officer	
<b>Band and Salary:</b>	T1 – T3	\$15,448 to \$29,287  Note: Seagoing allowance of 20% of basic salary only when vessel is at sea
<b>Ministry and Department:</b>	Transport, Energy, Communication, and Innovation	Marine and Port Services
<b>Location:</b>	Funafuti – Nivaga III	
<b>Reports to:</b>	Chief Engineer	

## JOB PURPOSE:

The Electrical Technical Officer (ETO) is responsible for the maintenance, operation, and repair of all electrical and electronic systems on board the vessel. The ETO ensures the safe and efficient functioning of these systems, complying with international maritime regulations and safety standards. This position requires a thorough understanding of marine electrical engineering, electronics, and automation systems.

## KEY RESPONSIBILITIES:

1. Electrical Systems management.
2. Electronic Systems maintenance.
3. Safety and emergency systems.
4. Diagnostics and troubleshooting.
5. Documentation and reporting.
6. Compliance and Safety.
7. Collaboration and communication.

## MAIN DUTIES AND OUTCOMES:

- 1.1 Operate, maintain, and repair all electrical systems, including power generation, distribution, and control systems.
- 1.2 Monitor and manage electrical power consumption and distribution to ensure optimal performance and efficiency.

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2.1 Maintain and repair communication, navigation, and electronic systems, including radars, GPS, VHF radios, and other critical equipment.

2.2 Ensure proper functioning and calibration of all electronic instrumentation and control systems.

3.1 Maintain emergency power systems, fire detection, and alarm systems.

3.2 Ensure the availability and reliability of emergency lighting and other critical safety systems.

4.1 Diagnose and troubleshoot faults in electrical and electronic systems, providing timely and effective solutions.

4.2 Conduct regular inspections and preventive maintenance to minimize downtime and prevent system failures.

5.1 Maintain accurate records of all maintenance, repairs, and inspections.

5.2 Prepare and submit reports on the status of electrical and electronic systems, including any incidents or issues encountered.

6.1 Ensure all electrical and electronic systems comply with international maritime regulations and safety standards.

6.2 Participate in safety drills and contribute to the overall safety culture on board.

7.1 Work closely with other engineering officers, the Chief Engineer, and the Captain to ensure the smooth operation of the vessel.

7.2 Communicate effectively with the crew regarding the status and maintenance of electrical and electronic systems.

### **MANDATORY REQUIREMENTS:**

#### Qualifications/Certifications/Experience:

Degree or diploma in Marine Electrical Engineering, Electronics, or a related field. Valid ETO certification as per STCW (Standards of Training, Certification, and Watchkeeping for Seafarers) regulations. Previous experience as an ETO on vessels, preferably with similar tonnage.

#### Skills and Knowledge:

Strong knowledge of electrical and electronic systems

Excellent diagnostic and problem-solving skills

Familiarity with maritime safety regulations.

Detail-oriented

Ability to work under pressure

Good communication skills, and a strong commitment to safety.

#### Working Conditions:

The ETO will be required to work on board a vessel with a gross tonnage of 1200+.

The position involves working in varying weather conditions and may require extended periods at sea.

The role requires flexibility, including being on call for emergencies and unscheduled repairs.

### **IMPORTANT NOTICE**

**Applicants through their applications MUST:**

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- (i) Address all the qualification requirements of the job description.
- (ii) Address each of the responsibilities of the job as listed in the job description indicating how best he/she can carry out those responsibilities satisfactorily and at the same time add value to the job.
- (iii) The response in each case in (i) and (ii) must reflect the information in the CV; and the job application checklist.

*It is expected that officers recognize the cross-cutting nature of gender issues; the roles and responsibilities in this job description should be performed by taking into account a sector integration of gender perspectives.*