

Declaration for Certificate of Proficiency III/7 (Electro-technical rating)

With reference to Regulation III/7 §2.2.2.1 and Section A-III/7 §2 of the STCW Convention 1978, as amended, every candidate for certification of electro-technical ratings shall:

- 1°) be not less than 18 years of age,
- 2°) approved seagoing service of not less than 12 months on a seagoing ship powered by main propulsion machinery of 750kW propulsion power or more (during the preceding 5 years), and
- 3°) meet the standard of competence specified in section A-III/7 of the STCW Code, in the following subjects:

Column 1	Column 2
	Electrical, electronic and control engineering at the support level
Safe use of electrical equipment	Safe use and operation of electrical equipment, including: .1 safety precautions before commencing work or repair .2 isolation procedures .3 emergency procedures .4 different voltages on board Knowledge of the cause of electric shock and precautions to be observed to prevent shock
Contribute to monitoring the operation of electrical systems and machinery	Basic knowledge of the operation of mechanical engineering systems, including: .1 prime movers, including main propulsion plant .2 engine-room auxiliary machineries .3 steering systems .4 cargo-handling systems .5 deck machineries .6 hotel systems Basic knowledge of: .1 electro-technology and electrical machines theory .2 electrical power distribution boards and electrical equipment .3 fundamentals of automation, automatic control systems and technology .4 instrumentation, alarm and monitoring systems .5 electrical drives .6 electro-hydraulic and electro-pneumatic control systems .7 coupling, load sharing and changes in electrical configuration
Use hand tools, electrical and electronic measurement equipment for fault finding, maintenance and repair operations	Safety requirements for working on shipboard electrical systems Application of safe working practices Basic knowledge of: .1 construction and operational characteristics of shipboard AC and DC systems and equipment .2 use of measuring instruments, machine tools, and hand and power tools
	Maintenance and repair at the support level
Contribute to shipboard maintenance and repair	Ability to use lubrication and cleaning materials and equipment Knowledge of safe disposal of waste materials Ability to understand and execute routine maintenance and repair procedures Understanding manufacturer's safety guides and shipboard instructions

	Maintenance and repair at the support level
Contribute to the maintenance and repair of electrical systems and machinery on board	<p>Safety and emergency procedures</p> <p>Basic knowledge of electro-technical drawings and safe isolation of equipment and associated systems required before personnel are permitted to work on such plant or equipment</p> <p>Test, detect faults and maintain and restore electrical control equipment and machinery to operating conditions</p> <p>Electrical and electronic equipment operating in flammable areas</p> <p>Basics of ship's fire-detection system</p> <p>Carrying out safe maintenance and repair procedures</p> <p>Detection of machinery malfunction, location of faults and action to prevent damage</p> <p>Maintenance and repair of lighting fixtures and supply systems</p>
	Controlling the operation of the ship and care for persons on board at the support level
Contribute to the handling of stores	Knowledge of procedures for safe handling, stowage and securing of stores
Apply precautions and contribute to the prevention of pollution of the marine environment	<p>Knowledge of the precautions to be taken to prevent pollution of the marine environment</p> <p>Knowledge of use and operation of anti-pollution equipment</p> <p>Knowledge of approved methods for disposal of marine pollutants</p>
Apply occupational health and safety procedures	<p>Working knowledge of safe working practices and personal shipboard safety, including:</p> <p>.1 electrical safety</p> <p>.2 lockout/tag-out</p> <p>.3 mechanical safety</p> <p>.4 permit to work systems</p> <p>.5 working aloft</p> <p>.6 working in enclosed spaces</p> <p>.7 lifting techniques and methods of preventing back injury</p> <p>.8 chemical and biohazard safety</p> <p>.9 personal safety equipment</p>

I (name, rank) confirm that the seafarer

(name seafarer, date of birth),/...../.....

has achieved the minimum knowledge, understanding and proficiency required for an electro-technical rating as listed in the hereabove table, and the required seagoing service.

Date:/...../20.....

Signature: