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:

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| **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 boardKnowledge 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 systemsBasic 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 systemsApplication of safe working practicesBasic 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 equipmentKnowledge of safe disposal of waste materialsAbility to understand and execute routine maintenance and repair proceduresUnderstanding manufacturer’s safety guides and shipboard instructions |

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|  | **Maintenance and repair at the support level** |
| Contribute to the maintenance and repair of electrical systems and machinery on board | Safety and emergency proceduresBasic knowledge of electro-technical drawings and safe isolation of equipment and associated systems required before personnel are permitted to work on such plant or equipmentTest, detect faults and maintain and restore electrical control equipment and machinery to operating conditionsElectrical and electronic equipment operating in flammable areasBasics of ship’s fire-detection systemCarrying out safe maintenance and repair proceduresDetection of machinery malfunction, location of faults and action to prevent damageMaintenance and repair of lighting fixtures and supply systems |
|  | **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 precautionsand contributeto the prevention ofpollution of themarine environment | Knowledge of the precautions to be taken to prevent pollution of the marine environmentKnowledge of use and operation of anti-pollution equipmentKnowledge of approved methods for disposal of marine pollutants |
| Apply occupationalhealth and safetyprocedures | Working knowledge of safe working practices and personal shipboard safety, including:.1 electrical safety.2 lockout/tag-out.3 mechanical safety.4 permit to work systems.5 working aloft.6 working in enclosed spaces.7 lifting techniques and methods of preventing back injury.8 chemical and biohazard safety.9 personal safety equipment |

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: