

OCCUPATIONAL QUALIFICATION STANDARD

Boatbuilder (Composite Boat), EstQF Level 4

An occupational qualification standard is a document which describes the set of skills, knowledge and attitudes, i.e. competence requirements, needed to successfully accomplish duties. Occupational qualification standards are used for compiling curricula and awarding qualifications.

Occupational title	Level of Estonian Qualifications Framework (EstQF)
Boatbuilder (Composite Boat), EstQF Level 4	4

Part A DESCRIPTION OF WORK

A.1 Description of work
<p>Boatbuilder (Composite Boat), Level 4 builds and assembles composite boat hulls, decks and parts for boats, yachts, cutters and other small boats up to 24 metres in length.</p> <p>The work includes the installation of interior elements combined with wood, metal, plastic and other materials.</p> <p>A composite boat builder may work independently or in a team.</p>
A.2 Tasks
<p>A.2.1 Organisation of work</p> <ol style="list-style-type: none"> 1. Finding information and planning work 2. Gathering work equipment and devices 3. Choosing and preparing materials <p>A.2.2 Ensuring safety</p> <ol style="list-style-type: none"> 1. Meeting safety requirements in the work process 2. Organising a safe workplace 3. Using safety and personal protective equipment <p>A.2.3 Inspection and maintenance</p> <ol style="list-style-type: none"> 1. Checking the standards compliance of completed work 2. Identifying and fixing defects 3. Maintenance work 4. Final inspection and documentation <p>A.2.4 Laminating hull and deck construction parts</p> <ol style="list-style-type: none"> 1. Preparing moulds 2. Laminating (moulding) 3. Removing parts from moulds and processing <p>A.2.5 Fitting and assembling laminated and other parts for small boats</p> <ol style="list-style-type: none"> 1. Fitting parts 2. Assembling <p>A.2.6 Finishing composite parts and surfaces</p> <ol style="list-style-type: none"> 1. Preparing surfaces 2. Painting surfaces 3. Polishing and waxing

A.3 Work environment and specific nature of work

The work is seasonal and some periods are busy and intensive. Workers must be prepared to work overtime, on weekends and during holidays. Occasionally work must be done in outdoor environments or at heights, requiring physical and mental strength. Extreme weather, vibration, noise and dust must be taken into account. Contact with chemicals that may trigger allergic reactions is possible. Safety and personal protective equipment is mandatory for avoiding trauma and environmental pollution.

A.4 Tools

Machines and devices (including robots and composite material processing devices), handheld, pneumatic, hydraulic and electric tools, measurement devices, information and communication devices and software.

A.5 Personal qualities required for work: abilities and characteristics

The work requires precision and the ability to take responsibility, learn and adapt. Important traits are technical intelligence, ability to focus, manual dexterity and physical stamina.

A.6 Professional preparation

Professional skills are acquired from vocational education or through work and training courses.

A.7 Most common occupational titles

Laminator, finisher, boatbuilder-laminator, etc.

A.8 Regulations governing profession

Work safety regulations and workers' rights and responsibilities in creating and maintaining a safe work environment are regulated by the Occupational Health and Safety Act.

Part B COMPETENCY REQUIREMENTS

B.1 Structure of occupation

Competences B.2.1-B.2.7 must be certified when applying for the qualification of Boatbuilder (Composite Boat).

B.2 Competences

MANDATORY COMPETENCES

B.2.1 Organisation of work	EstQF Level 4
Performance indicators: 1. Can find the necessary information for completing work tasks from project blueprints, manuals and other technical documentation using appropriate application software; 2. Determines the order of project stages and workplace risk factors according to the available information; 3. Assembles work equipment and devices according to the task, instructional materials and the technology used; 4. Ensures the work equipment's compliance with standards; 5. Decides the amount of material to use according to technical documentation and the markings on the materials; 6. Assembles the necessary materials and requisites; 7. Stores materials according to standards.	
B.2.2 Ensuring safety	EstQF Level 4
Performance indicators: 1. Adheres to electricity and fire safety requirements at every stage of work; 2. Uses safe work methods in order to avoid accidents and the risk of pollution; 3. Adheres to safety card instructions when handling devices and chemicals; 4. Secures and prepares a safe work space for the given work processes and keeps it in order; 5. Meets the occupational safety requirements that apply to the work place; 6. Follows work environment safety rules and collects waste according to procedural rules and supervision policies;	

7. Uses the necessary safety and personal protection equipment in order to avoid accidents and health risks; 8. Ensures that safety and personal protection equipment is in order.	
B.2.3 Inspection and maintenance	EstQF Level 4
Performance indicators: 1. Ensures product adherence to standards through visual inspection and using appropriate measurement tools. Records work results according to established procedures; 2. Identifies the causes of any defects or flaws found in a product and informs the responsible worker of the non-compliance; 3. Eliminates defects within the limits of their competence, following all relevant instructions; 4. Maintains and cleans moulds according to the maintenance schedule; 5. Does a final inspection of eliminated defects; 6. Documents work results and changes made according to the established procedure.	
B.2.4 Laminating boat hull, deck construction and interior parts	EstQF Level 4
Performance indicators: 1. Cleans, waxes and tapes moulds according to instructions; 2. Paints prepared moulds by hand or with a machine according to instructions; 3. Laminates parts made from the prepared materials using manual or vacuum methods according to the specifications; 4. Safely removes parts from their moulds using appropriate work methods and equipment; 5. Cuts and trims parts using appropriate work methods and equipment.	
B.2.5 Fitting and assembling laminated and other parts for small boats	EstQF Level 4
Performance indicators: 1. Chooses parts that are laminated and made from other materials (plastic, wood and metal) and fits them according to the blueprints; 2. Laminates fitted parts according to the blueprints.	
B.2.6 Finishing composite parts and surfaces	EstQF Level 4
Performance indicators: 1. Roughens and cleans parts and surfaces according to the material of the surface and the finishing material; 2. Paints the inner surfaces of laminated parts according to instructions; 3. Paints the bottom of a boat beneath the waterline according to instructions; 4. Polishes and waxes the exterior surfaces of a boat according to instructions.	

RECURRING COMPETENCES

B.2.7 Recurring competences of Boatbuilder (Composite Boat), Level 4	EstQF Level 4
Performance indicators: 1. Is goal-oriented and responsible, adhering to the legal requirements of the occupation. 2. Reads blueprints, instructions and other technical documentation. 3. Communicates politely and properly with colleagues and clients and relays information in a clear and intelligible way. 4. Adapts to the team, works responsibly and reacts promptly to changes in the work process, where required. 5. Makes the most of opportunities for self-development and is up to date on technological advances in the field. 6. Uses a computer at the Basic user level for safety, content creation, problem-solving, information-processing and communication (see Annex 1 – Scale of self-assessment in digital competence); 7. Uses English at least at the B1 level to obtain specialised information, work with instruction materials and for professional communication (see Annex 2 – Language skills level descriptions).	
Knowledge: 1. Specialist terminology: vocabulary used in instructions, manuals and work orders; 2. The basics of boat-building; 3. Types, properties and uses of composite materials; 4. Technologies used in production with composite materials	
Assessment method(s):	

Recurring competences are evaluated as part of the assessment of the other competences listed in the occupational qualification standard.

Part C

GENERAL INFORMATION AND ANNEXES

C.1 Information concerning compilation and certification of occupational qualification standard and reference to classification of occupations	
1. ID of occupational qualification standard in register of occupational qualifications	24-03122019-2.1.1/1k
2. Occupational qualification standard compiled by:	Mark Muru, OÜ Alunaut Peeter Sääsk, Saare Yachts OÜ Andres Meisterson, Kuressaare Ametikool Andres Kõnd, Veeteede Amet Raivo Lepik, Baltic Workboats Ltd Andres Toom, Luksusjaht
3. Occupational qualification standard approved by:	Engineering, Manufacturing and Processing
4. No. of decision of Sectoral Council	13
5. Date of decision of Sectoral Council	03.12.2019
6. Occupational qualification standard valid until	05.11.2024
7. Occupational qualification standard version no.	1
8. Reference to International Standard Classification of Occupations (ISCO 08)	8142 Plastic Products Machine Operators
9. Reference to European Qualifications Framework (EQF)	4
C.2 Occupational title in foreign language	
English:	Boatbuilder (Composite Boat), EstQF Level 4
C.3 Annexes	
Lisa 1 Language skills level descriptions	
Lisa 2 Scale of self-assessment in digital competence	