



ESF program "Development of the system for qualifications"

OCCUPATIONAL QUALIFICATION STANDARDS

Applied Architect, Level 6

The Occupational Qualification Standards are documents that describe the professional activity and provides the competency requirements and the set of skills, knowledge and attitudes necessary for successful performance of the work.

Uses of the professional standards

- 1) Compilation of curricula and training programs meeting the requirements of the labor market.
- 2) Assessment of people's competency, including self-assessment and assessment of conformity on awarding of the occupational qualification.
- 3) Description and presentation of the occupations.
- 4) Career planning and laying the foundations for lifelong learning.
- 5) Identification of training needs and the planning for training.
- 6) Preparation of job descriptions and recruitment of employees.
- 7) A comparison of occupations and qualifications.

Occupational title	Estonian Qualifications Framework (EQF) level
<i>Applied Architect, Level 6</i>	6

Part A

DESCRIPTION OF THE OCCUPATIONAL QUALIFICATION

A.1 Description of work

Architectural design, the quality of buildings, their harmonious incorporation into their surroundings, respect for natural and urban landscapes and for the public and private heritage are a matter of public interest. The goal of the applied architect is to participate in the development of spatially integrated solutions, combining technical performance of the designed buildings with artistic and economical solutions.

The applied architect is a person graduated from the applied architectural studies of an institution of professional higher education or a comparable institution of education. In his or her work, the applied architect is based on the practices of good planning, design and construction.

An applied architect, Level 6 is a specialist who is able to participate in the supervision of a chartered architect in preparation of spatial planning and construction designs of land, cities and towns. In the occupational qualifications of the architect, in addition to the Applied architect, Level 6, are the following occupational qualifications:

The Qualified architect, Level 7, is a specialist who under the supervision of a chartered architect draws up the architectural part and architecturally integrated solutions of building designs of various types of plans and buildings.

The Chartered/principal architect, Level 7 is a specialist who is able to independently and on their own responsibility, develop, assess and manage architecturally complete solutions for spatial planning and construction of land, cities and towns and evaluate the built environment. The Chartered/principal architect is able to give more complex expert evaluations in their respective fields and to participate in the juries of local architectural competitions. The Chartered/principal architect is able to work in state and local government agencies as a leading architect.

The Chartered/principal architect - expert, Level 8 is a top professional who has a doctoral degree or another comparable academic degree or is internationally recognized as a creative person who is able to independently and on their own responsibility, develop, assess and manage the architectural complete solutions of spatial planning and construction of land, cities and towns and evaluate the built environment. The Chartered/principal architect - expert, Level 8 is able to give more complex expert evaluations in their respective fields and to participate in juries of international architectural competitions. He or she is able to work in state and local government agencies as a top expert in the relevant area.

A.2 Work Units

- A.2.1 Preparation of the architectural part of a plan in various types of planning
- A.2.2 Preparation of the architectural part of building designs, including drafting of a complete solution for external and internal space in all its stages
- A.2.3 Working in local governments and state agencies
- A.2.4 Office operations management

A.3 Work environment and the specificity of the work

The architect works predominantly in an architect's office. He or she can also work in a state agency, outdoors on the site and elsewhere. On the construction site safety requirements must be complied with, indoors apply the general health requirements applied to office spaces. The work is creative, but it can be, at times mentally stressful. The workload can be distributed unevenly.

A.4 Work equipment

The applied architect uses in his or her work relevant office tools, a variety of communication techniques, office and design software and modeling tools.

A.5 Personal characteristics necessary for the work: aptitude and personality traits

In the work of an applied architect are important the following personal characteristics:
Ability to cooperation, communication skills and stress tolerance, logical thinking and generalization capabilities, precision and accuracy, spatial perception and space for the imaging and the ability to compose, creative thinking, ready to learn and evolve.

A.6 Professional training

An applied architect is a specialist that has completed the curriculum of applied architecture.

A.7 The possible job titles

Applied architect, building architect, assistant architect, architect-assistant, architect-technician, designer.

Part B

COMPETENCY REQUIREMENTS

B.1. Structure of the occupational qualification

Upon application for the occupational qualification, certification is required by the competencies B.2.1 - B.2.4.

The method of assessment of the competencies is documentary certification and a portfolio and, if necessary, an interview and/or an expert review.

B.2 Competencies

B.2.1 Preparation of the architectural part of a plan in various types of planning

Performance indicators

1. Participates in the analysis of the initial situation of the plans on the solution of a task of a limited extent assigned by the architect in charge, taking into account the long-term development trends and needs of spatial, economic, social, natural, historical, cultural and environmental developments.
2. On the basis of the initial positions, and under the guidance of the architect in charge, compiles the blueprint solution and partial blueprint solutions of the planning, finding functionally, technically, aesthetically and economically balanced solutions that form the basis of high quality environment.
3. Formalizes the graphical, textual and illustrative part of the spatial solution of the planning in a clear, legible and comprehensible manner, using the appropriate technical means. On the preparation of documents uses correct Estonian language and professional terminology.
4. Explains and justifies the solution of the plan and answers the questions in an understandable way.

B.2.2 Preparation of the architectural part of building designs, including drafting of a complete solution for the external and internal space in all its stages	ECT Level 6
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Performance indicators

1. Identifies the initial conditions resulting from the needs and the possibilities of the users and prepares the (spatial) program of more buildings.
2. On the basis of the initial task and under the guidance of the architect in charge, draws up different spatial visions and blueprint solutions for the building or parts thereof, finding a functionally, constructively, aesthetically and economically balanced sustainable solution.
3. On the basis of the blueprint under the guidance of the architect in charge, draws up architectural solutions of the preliminary, principal and operational building design documentation to the extent provided in the standard and in mutual interaction with the other parts of the design projects.
4. Executes the graphical, textual and illustrative part of the design documentation. Executes documentation in a clear, legible and comprehensible manner, using the appropriate technical means. On the preparation of documents uses correct Estonian language and professional terminology.
5. Draws up manuals for maintenance and use of the architectural elements and products, taking into account the instructions of the manufacturer of the products and materials, and the requirements imposed on them.
6. If necessary performs under the supervision of the architect in charge, author's supervision of the design and the object for ensuring copyright protection and verifies the compliance of the building with the design documentation. If required, specifies and complements the design project during the

construction process. Prepares manuals for maintenance and use of architectural elements.

B.2.3 Working in local governments and state agencies	ECT Level 6
<u>Performance indicators</u> <ol style="list-style-type: none">1. Is able to work in state and local government agencies as an architect's assistant. Manages and analyzes the documentation and makes suggestions accordingly (for example, compares the measured sizes of various types of plans and projects and checks their compliance with regulations and standards, etc.).2. As an architect's assistant prepares and executes understandably and correctly the necessary documents, including drawings, expressing the views of the institution.	
B.2.4 Office operations management	ECT Level 6
<u>Performance indicators</u> <ol style="list-style-type: none">1. Plans and organizes the work of an architectural design office, creating a work environment suitable for the creation and ensuring the availability of the tools necessary for the work of an architect. Forms a cooperative team from the employees of the office.2. Manages and develops contractual relations, ensuring the economic capabilities of the office, subject to the legal environment and the professional ethics of an architect.	
B.2.5 Transversal competencies	ECT Level 6
<u>Performance indicators</u> <ol style="list-style-type: none">1. Under the guidance of the architect in charge, is able to create comprehensive and balanced spatial solutions, linking their aesthetic and technical quality to the values of a natural and built environment and the cultural and historical context.2. Understands the human relationship with the built environment and the relationship of the built environment with the existing environment, taking into account the buildings and the space between them and the consistency thereof with nature.3. Understands the spatial planning, constructional design, construction and use of buildings as a single process, which is a prerequisite for the creation of a high quality, built environment.4. Understands and applies constraints and conditions resulting from the underlying research.5. Understands the functional relationships between spatial planning and architectural design.6. Knows and implements a variety of constructive, technical and technological knowledge at a level that will allow others to evaluate critically and make appropriate choices.7. Takes into account the needs of the users of the built environment, integrating these with the capabilities and constraints and the principles of a sustainable and suitable development.8. Uses the more widespread communication technologies and medias in planning, design, and the management process.9. Understands the nature of the social role of the profession and the ethics of an architect, takes into account social factors and follows in their activities the requirements of professional ethics.10. Is ready to participate actively in civil society and is tolerant to the plurality of attitudes and values.11. Participates in team work, has respect for colleagues and knows the work culture.12. Understands and applies the principles of resource and energy efficiency and sustainable development in the built environment.13. Uses in his or her work the Estonian language at least at level B2.	
<u>Knowledge:</u> <ol style="list-style-type: none">1. Basics of history and theories of architecture and related arts, culture and science.	



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2. Basics of spatial planning, urban and internal design, and landscape architecture.
3. Basics of spatial composition.
4. Typology of buildings.
5. Basics of science and engineering related to architecture.
6. Basics of building techniques and technology.
7. Building and finishing materials.
8. Building physics and energy efficiency.
9. Legislation governing the planning and design of buildings and other related fields.
10. The economics and business environment and their general trends.

Part C GENERAL INFORMATION AND ANNEXES

C.1 Information for the preparation and approval of the occupational standard, the awarding body, and a reference to the location of the occupational standard in the classifications	
1. The marking of the occupational standard in the occupational qualification register	19-14032013-03/2k
2. Occupational qualification standard prepared by:	Ilmar Heinsoo Union of Estonian Architects, <i>Achitectural Design and Engineering Office ARX OÜ</i> Tõnu Laigu, Union of Estonian Architects, <i>QP Arhitektid</i> Andres Levald, Union of Estonian Architects, <i>E-Konsult OÜ</i> Hindrek Kesler, TTK University of Applied Sciences <i>Achitectural Design Office Zero OÜ</i> Joel Kopli, TTK University of Applied Sciences <i>Achitectural Design Office PLUSS OÜ</i> Nele Nutt, Estonian Landscape Architects' Union Toomas Paaver, Union of Estonian Architects, <i>Paik Arhitektid OÜ</i> Margus Sarmet, Ministry of Economic Affairs and Communications, Jüri Soolep, Estonian Academy of Art Kai Süda, TTK University of Applied Sciences, <i>KARISMA arhitektid OÜ</i>
3. Occupational qualification standard approved by	Professional Council of Culture
4. Professional Council Decision No.	14
5. Date of Professional Council Decision.	14.03.2013
6. Occupational Standard valid until (date)	13.03.2018
7. Occupational Standard version number	2
8. Reference to the Classification of Occupations (ISCO 08)	Architects, planners, surveyors and designers, code 2161
9. Reference to the European Qualifications Framework (EQF)	EQF level 6
C.2 Occupational title in a foreign language	
English: Applied Architect	
Finnish: Rakennusarkkitehti	
C.3 Annexes	
Annex 1 Work units and work tasks	
Annex 2 Computer skills	
Annex 3 Language skill levels descriptions	

WORK UNITS AND WORK TASKS

Work Units and tasks <i>(the table shows the division of work in a generalized form, the actual division of work may contain a large number of exceptions. The distribution of competencies between levels of occupational qualifications is related to the object of the work and is described in more detail in the standard of each occupational qualification level.)</i>	Applied Architect	Diploma architect	Chartered architect	Chartered architect-expert
1. Preparation of the architectural part of a plan in various types of planning				
1.1 Inspection of the planning object, spatial analysis and preparation of the initial positions of the plan		X	X	X
1.2 Participation in the preparation of blueprint solutions of spatial visions and plans	x	X	X	X
1.3 Preparation of spatial integrated solutions for the planning area			X	X
1.4 Formalization of spatial integrated solutions for the planning area	x	X	X	X
1.5 Taking into account and balancing the interests of the parties (including owners, local governments, state agencies, the general public) through spatial solutions		x	x	x
1.6 Introduction and defending the spatial integrated solution of a plan, the process of cooperation and disclosure			x	x
2.Preparation of the architectural part of building designs, including drafting of a complete solution for the external and internal space in all its stages				
2.1 Analysis of the terms of reference and preparation of the program		X	x	x
2.2. Participation in the preparation of spatial visions and blueprints of the building	x	X	x	x
2.3 Preparation of a building design				
2.3.1 Participation in the preparation of a building design	x	x	x	x
2.3.2 Preparation of spatial integrated solutions of a building design		x	x	x
2.4 Formalization and documentation of a building design	x	X	x	x
2.5 Participation and cooperation in the process of	x	x	x	x

coordination and applying for a building permit				
2.6 Participation in the building process and in the building deployment process	x	X	x	x
3. Evaluation of the spatial solutions and integrated environmental aspects of various types and stages of plans and building designs				
3.1 Evaluation of the mutual spatial consistency of different types of plans			x	x
3.2 Evaluation of the mutual compatibility of the spatial solutions for building designs and plans			x	x
3.3 Provision of expert evaluations of plans, building designs and buildings			x	x
3.4 Participation in the preparation of architectural competitions and in the work of the jury			x	x
4. Working in coordination and preparation of spatial decisions of local governments and state agencies				
4.1 Coordination of the preparation for spatial solutions			x	x
4.2 Representation of the local government or state agency			x	x
4.3 Advising interested parties in the public interest	x	x	x	x
5. Management of the building and planning processes				
5.1 Management for preparation of plans				
5.1.1 Organization for the preparation of plans and cooperation with the drafters of different parts of the plan			x	x
5.1.2 Cooperation with state and local government agencies, owners, interested parties, the public, and the holders of the infrastructure			x	x
5.2. Management for preparation of building designs				
5.2.1 Organization for the preparation of building designs, including coordination of the preparation of different parts of the building design		x	x	x
5.2.2 Supervision of the participants in the preparation of the architectural part of building designs, including drafting of a complete solution for external and internal spaces		x	x	x
5.2.3 Cooperation with users, the clients, and the			x	x



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agencies				
5.3 Management of the operation of the office				
5.3.1 Planning and organization of office work	x	x	x	x
5.3.2. Management and development of contractual relations	x	x	x	x