ESF program "Development of the system of qualifications'

OCCUPATIONAL QUALIFICATION STANDARDS

Diploma Architect, Level 7

The Occupational Qualification Standards are documents that describe the professional activity and provides the competency requirements or 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 the training.
6) Preparation of job descriptions and recruitment of employees.
7) A comparison of occupations and qualifications.

This occupational qualifications standard forms a basis for the curriculum of Master's study

Occupational Title	**Estonian Qualifications Framework (EQF) level**
Diploma Architect, Level 7	*7*

Part A
DESCRIPTION OF THE OCCUPATIONAL QUALIFICATION

A.1 Description of work
Architectural design, the quality of buildings, their harmonious incorporation into their surroundings, and respect for natural and urban landscapes and for the public and private heritage are a matter of public interest. Architectural work aims to develop a comprehensive spatial solution, combining technological, technical, artistic and economical solutions. Spatial complete solutions include the architecture of buildings, the indoor space of buildings and the space between the buildings and links them into a balanced, comprehensive solution. Spatial comprehensive solutions are the basis for the creation of comprehensive living environment as a result of future design and construction. Persons with the occupational qualification of an architect are able to understand and mediate the needs of individuals, social groups and authorities as regards to spatial planning, architectural design, construction, architectural heritage preservation and evaluation and preservation of the natural balance. The architect is a person graduating from the architectural studies of the university or a comparable institution. In his or her work, an architect is based on the practices of good planning, design and construction. **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.** In the occupational qualification of an architect, in addition to the Diploma Architect, Level 7 are the following occupational qualifications: The Implementation 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. The Chartered/principal architect, Level 7 is a specialist 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 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 the 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 the external and internal space in all of its stages
A.2.3 Working with coordination and preparation of spatial decisions of local governments and state agencies
A.2.4 Management of building and planning processes

A.3 Work environment and the specificity of the work

The architect works predominantly in architect's office. He or she can also work in a state agency, outdoors on the site and elsewhere. On the construction site, the 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 architect uses in his or her work the 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 architect are important the following personal characteristics:
perception of space and the ability to image and compose a room, creative thinking, logical thinking and generalization ability, independence and willingness to make decisions, sense of responsibility and punctuality, cooperation ability, communication skills and stress tolerance, need for achievement and a sense of beauty.

A.6 Professional training

A university or architectural studies of a comparable institution of education, which is in line with the Directive of the European Parliament and of the Council of 7 September 2005 2005/36 / EC “On the recognition of professional qualifications" and the Government of the Republic of Estonia on 25 October 2004 No 312, “Framework requirements of the medical doctor, veterinary surgeon, pharmacist, dental practitioner, midwife, nurse, architect and civil engineering studies"1.

A.7 The possible job titles

Architect, designer, planner, advisor.

Part B
COMPETENCY REQUIREMENTS

B.1. Structure of the occupational qualification
Upon application for the occupational qualification, certification is required of the competencies B.2.1 - B.2.4 and B.2.6 (transversal competencies). Upon the application of the initial level, the assessment of the competencies is performed in a common graduation thesis of the Master's level, in other cases the assessment method 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	ECT Level 7
Performance indicators 1. Participates in the analysis of the initial situation of the plans which are of heightened public interest, taking into account the long-term development trends and needs of spatial, economic, social, natural, historical, cultural and environmental development. 2. Participates in the preparation of blueprint solutions of various spatial visions, spatial strategies and planning the start positions on the basis of the initial positions. 3. Participates in the creation of the spatial integrated solutions of the plan, on the basis of the previous analysis, visions, and sketch solutions. 4. 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. 5. Participates in finding balanced solutions to substantive problems.	

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 7
Performance indicators 1. Identifies and analyzes the initial conditions resulting from the location and the needs and the possibilities of the users and prepares an initial task and the (spatial) program of the simpler buildings subject to lesser public interest. 2. On the basis of the initial task, draws up different spatial visions and blueprint solutions of the building, implementing a broad imagination, and finding a functionally, constructively, esthetically and economically balanced sustainable solution. 3. On the basis of the blueprint, draws up architectural solutions of the preliminary, principal and operational building design documentation of the design project of the simpler building subject to lesser public interest and needing a particularly high-level architectural solution in mutual interaction with the parts of other design projects and to the extent prescribed in the standard. Provides the integrity of the spatial solution and the preservation thereof in the course of design and construction. 4. 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 a correct Estonian language and professional terminology. 5. Understands the needs of a wide range of parties arising from the nature of the designed object, and finds reasonable and balanced solutions to the substantive issues raised.	

6. 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.
7. Performs 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.

B.2.3 Working with coordination and preparation of spatial decisions of local governments and state agencies	**ECT Level 7**

Performance indicators

1. Participates in the coordination of preparation of spatial solutions of plans and construction projects and making other decisions directing spatial development, in order to enable a comprehensive, high-quality and balanced spatial development.
2. Participates in consultation with different developers and other interested parties in the issues of preparation of spatial solutions of plans and construction projects, representing the public interest and the common values.

B.2.4 Management of building and planning processes	**ECT Level 7**

Performance indicators

Management for preparation of construction projects

1. Organizes and manages the preparation of construction projects of simpler buildings subject to lesser public interest, including the work of the persons preparing different parts of the construction projects, with the goal of achieving the integrity and quality of the construction project, coordinating the compatibility of the project components, and being responsible for the compatibility of the construction project.
2. Identifies and leverages the needs and interests of a limited number of various interested parties through spatial solutions, taking into account the relevant facts (such as the needs of the users and the clients, public interest, legislation, best practices, etc.).

Management of the office - ECT Level 6

1. Management and development of contractual relations, subject to the legal environment and the professional ethics of an architect.

B.2.5 Transversal competencies	**ECT Level 7**

Performance indicators

1. Is able to create comprehensive and balanced spatial solutions, linking their esthetic 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 the nature.
3. Understands the relationship between internal and external space, the relationship between public, semi-public and non-public space and the differences between the space of a settlement and the rural space.
4. 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.
5. Understands and applies different methods used in basic research and associated areas for preparation of the terms of reference and spatial solutions.

6. Senses the multiplicity of options, tests, analyzes and evaluates a variety of spatial solutions, makes conclusions and choices from them that are based on sufficient creative, esthetic, philosophical, methodological and theoretical basis.
7. Understand the functional relationships between spatial planning and architectural design.
8. Knows and implements a variety of engineering knowledge at a level that allows to set the tasks for the compilers of the various parts of planning and construction projects.
9. Takes into account the needs of the users of the built environment, integrating these with the capabilities and constraints and the principles of sustainable development.
10. Leads the collective preparation of planning and/or construction as a single activity, which provides creative and high-quality solutions.
11. Uses the more widespread communication technologies and media in planning, design, and the management process.
12. 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.
13. Is ready to participate actively in civil society and is tolerant to the plurality of attitudes and values.
14. Participates in teamwork, has respect for colleagues and knows the work culture.
15. Understands and applies the principles of resource and energy efficiency and sustainable development in the built environment.
16. Uses in his or her work the Estonian language at least at level B2.

Knowledge:

1. History and theories of architecture and related arts, culture, and science.
2. The areas of visual arts, architecture, and interior design influencing the quality of architectural design.
3. Basics, strategies, theories and history of spatial planning and urban design, environmental, landscape and interior architecture.
4. Basics of spatial composition.
5. Typologies of urban design and architecture.
6. Basics of sciences and engineering, building techniques and technologies related to architecture.
7. Legislation governing guiding and planning of spatial development and design of buildings, and related to other fields.
8. The economic and business environment and their general trends.

Assessment Method(s):

Transferal competencies are assessed in an integrated way in the course of the assessment of other competencies provided in the occupational standard.

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	19-14032013-05/4k
2. Occupational qualification standard prepared by:	Ilmar Heinsoo Union of Estonian Architects, *Achitectural Design and Engineering Office ARX OÜ* Tõnu Laigu, Union of Estonian Architects, *QP Arhitektid* Andres Levald, Union of Estonian Architects*, E-Konsult OÜ* Hindrek Kesler, TTK University of Applied Sciences *Achitectural Design Office Zero OÜ* Joel Kopli, TTK University of Applied Sciences *Achitectural Design Office PLUSS OÜ* Nele Nutt, Estonian Landscape Architects' Union Toomas Paaver, Union of Estonian Architects, *Paik Arhitektid OÜ* Margus Sarmet, Ministry of Economic Affairs and Communications Jüri Soolep, Estonian Academy of Art Kai Süda, TTK University of Applied Sciences,*KARISMA arhitektid OÜ*
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	4
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 7
C.2 Occupational title in a foreign language	
English: Diploma architect	
Finnish: Arkkitehti	
C.3 Annexes	
Annex 1 Work units and work tasks Annex 2 Computer skills Annex 3 Language skill levels descriptions	

Annex 1

WORK UNITS AND WORK TASKS

Work Units and tasks (*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.)*	**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 coordination and applying for a building permit	**x**	**x**	**x**	**x**
2.6 Participation in the building process and in the	**x**	**X**	**x**	**x**

building deployment process				
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 agencies			x	x
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**