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OCCUPATIONAL QUALIFICATION STANDARDS

Chartered/principal architect - expert, Level 8

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 planning for training.
- 6) Preparation of job descriptions and recruitment of employees.
- 7) A comparison of occupations and qualifications.

Title of the occupational qualification	Estonian Qualifications Framework (EQF) level
<i>Chartered/principal architect - expert, Level 8</i>	8



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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 environments 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 architectural studies of a university or a comparable institution. In his or her work, an architect is based on the practices of good planning, design and construction.

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 participates 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.

In the occupational qualification of an architect, in addition to the chartered/principal architect - expert, Level 8 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 Qualified architect, Level 7, is a specialist who under the supervision of a chartered architect draws up the architectural parts 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 to 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.

A.2 Work Units



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- 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 its stages
- A.2.3 Evaluation of the spatial solutions and integrated environmental of various types and stages of plans and building designs
- A.2.4 Working with coordination and preparation of spatial decisions of local governments and state agencies
- A.2.5 Management of building and planning processes

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, 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 a 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.6 The most common job titles

Architect, chief architect, expert, designer, planner, advisor.



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Part B

COMPETENCY REQUIREMENTS

B.1. Structure of the occupational qualification

Upon application for the occupational qualification, certification is required for the competencies B.2.1 - B.2.5 and B.2.6 (transversal competencies).

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

ECT Level 8

Performance indicators

1. Analyzes the initial situation of the plans which are of the heightened public interest, taking into account the long-term development trends and needs of spatial, economic, social, natural, historical, cultural and environmental development. Compiles the starting positions for the preparation of the integrated solution of the spatial planning, considering the needs and interests of as many members of the community as possible.
2. On the basis of the starting positions, compiles a variety of spatial visions, spatial strategies and sketch solutions of the plans that are the object of the heightened public interest, deploying the widest possible imagination and finding the functionally, aesthetically and economically balanced solutions necessary for the society that are the basis of a high quality environment.
3. Creates a spatial integrated solution of the plan subject to heightened public interest interacting with other parts of the plan, on the basis of the previous analysis, visions and sketch solutions. With the planning, plans the assumptions and possibilities for the completion of the comprehensive built environment, and high-quality living space.
4. Organizes and manages the formalization of graphical, textual and illustrative part of the spatial solution of the planning in a clear, legible and comprehensible manner. Monitors the use of appropriate technical resources. On the preparation of documents uses correct Estonian language, if necessary, a foreign language and professional terminology.
5. Understands the needs of a large number of different parties, and finds reasonable and balanced solutions to substantive problems. Is able to handle controversial and unusual situations.
6. Explains and justifies the solution of the plan and answers the most complex questions and the questions needing a new approach 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 8

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 for the unique buildings subject to heightened 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 finds a functional, constructive, aesthetical and economical balanced, sustainable solution.
3. On the basis of the blueprint, draws up architectural solutions of the preliminary, principal and operational building design documentation for the design project of the building subject to a heightened



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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. Supervises the execution of the graphical, textual and illustrative part of the design documentation. Monitors the clarity, readability and comprehensibility of the documentation and the use of appropriate technical resources. On the preparation of documents, monitors the use of correct Estonian and, if necessary, with a foreign language and professional terminology.

5. Understands the needs of a wide range of partners and a variety of heightened public interests, 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, materials and the requirements imposed on them.

7 Performs the 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.

8. Performs or arranges owner's supervision in accordance with the existing procedures.

B.2.3 Evaluation of the spatial solutions and integrated environmental of various types and stages of plans and building designs

ECT Level 8

Performance indicators

1. Evaluates the spatial compatibility of the more detailed planning subject to heightened public interest with the more general plan, based on the development and activities proposed in the general plan, the quality of the built environment, the interests of the public and the involved parties and to conditions and restrictions submitted with the plan.
2. Evaluates the compatibility design project subject to heightened public interest with the development and activities proposed in the plan, based on the quality of the built environment, the interests of the public and the involved parties and to the conditions and restrictions submitted with the plan.
3. Evaluates the planning of construction projects and buildings subject to heightened public interest, based on the overall quality of the built environment, the set targets, the technological, technical, artistic and economical level of the solutions, compliance with good planning, design and construction practices. If necessary, submits a reasoned opinion in writing.
4. Develops the conditions of international architectural competitions in accordance with the good practice of the organization of architectural competitions. Participates as an independent professional in the work of the jury of the international competitions.

B.2.4 Working with coordination and preparation of spatial decisions of local governments and state agencies

ECT Level 8

Performance indicators

1. Manages 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. Represents a local government or a state agency in ordering of plans and spatial solutions for construction projects, comprehensive development of public space, conducting of public procurement and the organization of architectural competitions, setting the quality of the space as a goal.
3. Leads consultation of different developers and other interested parties in the issues of preparation of



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spatial solutions of plans and construction projects, representing the public interest and the common values.

B.2.5 Management of building and planning processes	ECT Level 8
<p><u>Performance indicators</u></p> <p>Management of preparation of plans</p> <p>1 Organizes preparation of plans subject to heightened public interest and the cooperation with the participants of the planning process, setting the quality and integrity of the plan and of the spatial environment to be completed on the basis thereof as a goal. Coordinates the compatibility of the plans for the planning and the cooperation of the specialists of various fields (e.g., engineers, landscape architects, geographers, etc.) being in charge of the compatibility of the project components.</p> <p>2. Through the spatial solution, identifies and leverages the needs and interests of various interested parties in complex situations, requiring heightened accountability and a new strategic approach, taking into account the relevant facts (such as the public interest, legislation, best practices, etc.).</p> <p>Management of preparation of construction projects</p> <p>1. Organizes and manages the preparation of unique construction projects subject to heightened 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.</p> <p>2. Leads the working group of architects in the preparation of unique construction projects subject to heightened public interest, aiming at the quality of a spatially complete solution and being responsible for the quality of the architectural part of the project.</p> <p>3. 2. Through the spatial solution, identifies and leverages the needs and interests of various interested parties in complex situations, requiring heightened accountability and a new strategic approach, taking into account the relevant facts (such as the needs of the users and the clients, public interest, legislation, best practices, etc.).</p> <p>Management of the operation of the office</p> <p>1. Plans and organizes the work and development of 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 and competent team of the employees of the office.</p> <p>2. Organizes high quality professional continuing education of the employees of the office.</p> <p>3. Manages and develops contractual relations, ensuring the economic capabilities of the office, subject to the legal environment and the professional ethics of an architect.</p> <p>4. To ensure the quality of the project documentation, creates a quality management system for the office.</p>	
B.2.6 Transversal competencies	ECT Level 8
<p><u>Performance indicators</u></p> <p>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.</p> <p>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.</p> <p>3. Understands the relationship between internal and external space, the relationship between public, semi-public and non-public space and the differences of the space for a settlement and rural space.</p> <p>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.</p>	



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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. Understands 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. Leads the collective preparation of planning and/or construction as a single activity, which provides creative and high-quality solutions.
10. Uses the more widespread communication technologies and media in planning, design, and the management process.
11. 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.
12. Is ready to participate actively in civil society and is tolerant of the plurality of attitudes and values.
13. Participates in team work, has respect for colleagues and knows the work culture.
14. Understands and applies the principles of resource and energy efficiency and sustainable development in the built environment.
15. Uses in his or her work the Estonian language at least at level C1.

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 science and engineering, building techniques and technologies related to architecture.
7. Legislation governing guiding and planning of spatial development and design of buildings related to other fields.
8. The economic and business environment and their general trends.

Assessment Method(s):

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



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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	19-14032013-07/5k
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	5
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 8
C.2 Occupational title in a foreign language	
English: Chartered/principal architect	
Finnish Arkkitehti	
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

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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 agencies			x	x



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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