

# OCCUPATIONAL QUALIFICATION STANDARD

## Dendrologist, EstQF Level 5

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)
Dendrologist, EstQF Level 5	5

### Part A DESCRIPTION OF WORK

<b>A.1 Description of work</b>
Dendrologist, Level 5 is a specialist with extensive experience who conducts tree maintenance work, including planting, gives specialist advice for procurements and supervises tree maintenance and planting as well as the implementation of tree protection measures on construction sites. They assess the condition and value of woody plants and document the results, give advice concerning tree care and compile expert evaluations.
<b>A.2 Tasks</b>
<p>A.2.1 Assessing the condition of individual trees and park stands</p> <ol style="list-style-type: none"> <li>1. Assessing the value of woody plants</li> <li>2. Assessing the condition of woody plants</li> <li>3. Interpreting the assessment results</li> <li>4. Using a base plan during assessment</li> <li>5. Assessing replacement value</li> <li>6. Compiling an assessment report</li> </ol> <p>A.2.2 Performing supervision and giving advice</p> <ol style="list-style-type: none"> <li>1. Performing supervision on landscaping and construction sites</li> <li>2. Advising</li> <li>3. Compiling expert evaluations</li> </ol>
<b>A.3 Work environment and specific nature of work</b>
<p>A Dendrologist's work environment is highly diverse. Collection of evaluation data takes place outside, while the processing, interpreting and documenting of said data assumes an indoor work environment.</p> <p>A Dendrologist has ample opportunity to plan and divide their work time between outdoor and indoor activities, including being able to take the weather into consideration.</p>
<b>A.4 Tools</b>
Measuring tools such as altimeters, talmeters, callipers, increment drills, GPS devices, computers and other modern electronic measuring devices.
<b>A.5 Personal qualities required for work: abilities and characteristics</b>
The profession of Dendrologist requires an ability to think analytically, accuracy, a sense of responsibility and planning skills.
<b>A.6 Professional preparation</b>
Dendrologist, Level 5 either has specialised vocational education or has acquired their occupational skills through practical work.

## A.7 Most common occupational titles

Assessor of woody plants, dendrologist.

## Part B COMPETENCY REQUIREMENTS

### B.1 Structure of occupation

To obtain the qualification of Dendrologist, all competences (B.2.1-B.2.3) must be certified.

### B.2 Competences

#### MANDATORY COMPETENCES

B.2.1 Assessing the condition of individual trees and park stands	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> <li>1. Assesses a woody plant's dendrological, ecological, historical, cultural, social, monetary and other value using relevant methods.</li> <li>2. Evaluates the condition of a woody plant using relevant methods and tools, taking into account the effect of different factors on the tree's vitality, physiology and resistance to breaking. Consults specialists, if necessary.</li> <li>3. Interprets the results of research and measurements when deciding how to manage a tree. Consults specialists, if necessary.</li> <li>4. Checks that the base plan complies with the actual situation. If not, the Dendrologist draws attention to the inaccuracy and either corrects it or arranges for its correction. Uses the base plan to draw up and formalise their work.</li> <li>5. Assesses the monetary value of damaged or partially cleared trees and calculates the volume of replacement planting.</li> <li>6. Compiles an assessment report based on the outdoor work and presents suggestions for the betterment of trees and their growth environment and the conservation of endangered species. Consults specialists, if necessary.</li> </ol> <p>Knowledge:</p> <ol style="list-style-type: none"> <li>1) general knowledge of the work of arborists;</li> <li>2) species of woody plants and their characteristics;</li> <li>3) anatomy of woody plants (including the characteristics of roots) and basics of physiology and ecology;</li> <li>4) endangered species;</li> <li>5) flora of parks;</li> <li>6) knowledge of park architecture;</li> <li>7) species of fungal diseases and insect pests and their transmission methods;</li> <li>8) types of in-tree protection mechanisms and their importance;</li> <li>9) methods of evaluating a woody plant's dendrological, ecological, historical, cultural, social, monetary and other value;</li> <li>10) relevant legal acts and directives;</li> <li>11) principles of environmental protection;</li> <li>12) knowledge of CAD programmes.</li> </ol>	
B.2.2 Performing supervision and giving advice	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> <li>1. Performs supervision on landscaping and construction sites, checking the growth environment and management of woody plants throughout their life cycle.</li> <li>2. Advises clients on setting procurement conditions, compiling woody plant care recommendations and planning and establishing landscaping and structures.</li> <li>3. Compiles expert evaluations about the condition of woody plants.</li> </ol> <p>Knowledge:</p> <ol style="list-style-type: none"> <li>1) general knowledge of the work of arborists;</li> </ol>	

- 2) species of woody plants and their characteristics;
- 3) anatomy of woody plants (including the characteristics of roots) and basics of physiology and ecology;
- 4) flora of parks;
- 5) endangered species;
- 6) species of fungal diseases and insect pests and their transmission methods;
- 7) types of in-tree protection mechanisms and their importance;
- 8) relevant legal acts and directives;
- 9) principles of environmental protection;
- 10) knowledge of CAD programmes.

## RECURRING COMPETENCES

B.2.3 Recurring competences of Dendrologist, Level 5	EstQF Level 5
<p>Performance indicators:</p> <ol style="list-style-type: none"> <li>1. Is impartial and objective in their work, basing decisions on occupational knowledge and experience.</li> <li>2. Plans their work, adheres to agreements and fulfils their tasks on time and with high-quality end results.</li> <li>3. Foresees the consequences of their actions and inaction and takes responsibility for them.</li> <li>4. Is open to cooperation, takes part in teamwork; communicates with clients and colleagues, acts to achieve the best possible outcome collectively.</li> <li>5. Follows the principles of environmental protection, including species protection, in their work.</li> <li>6. Uses a computer at the Independent User level (Annex 1 – Scale of self-assessment in digital competence).</li> <li>7. Uses Estonian in their work at the C1 level. Is able to communicate in at least one other foreign language at the A2 level (Annex 2 – Language skills level descriptions).</li> </ol>	
<p>Knowledge:</p> <ol style="list-style-type: none"> <li>1) legal acts, materials and standards regulating the industry;</li> <li>2) principles of environmental protection;</li> <li>3) principles and stages of construction and landscaping projects and their blueprints;</li> <li>4) occupational terminology.</li> </ol>	
<p>Assessment method(s):</p> <p>This competence can be assessed as part of the assessment of the other competences listed in the occupational qualification standard.</p>	

## 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	16-06122018-5.3/5k
2. Occupational qualification standard compiled by:	Eve-Viktoria Lasberg, OÜ Sõbra Lilled Sulev Järve, Tallinna Keskkonnaamet Aino Mölder, Luua Metsanduskool Piia Kivisild, OÜ Kivikodu, Viljandi Kutseõppekeskus Arpo Pöld, Revatrin Grupp OÜ Tiit Pajuste, Vesilõigu OÜ
3. Occupational qualification standard approved by:	Forestry
4. No. of decision of Sectoral Council	13
5. Date of decision of Sectoral Council	06.12.2018
6. Occupational qualification standard valid until	29.11.2023
7. Occupational qualification standard version no.	5

8. Reference to International Standard Classification of Occupations (ISCO 08)	6210 Forestry and Related Workers
9. Reference to European Qualifications Framework (EQF)	5
<b>C.2 Occupational title in foreign language</b>	
English:	Dendrologist, EstQF Level 5
English:	Tree Worker
<b>C.3 Annexes</b>	
Lisa 1 <a href="#">Scale of self-assessment in digital competence</a>	
Lisa 2 <a href="#">Language skills level descriptions</a>	