



MAA-AMET

Certification of surveyors in Estonia

Karin Kollo (PhD)
Advisor
Estonian Land Board



Outline

- Geodetic regulation
- Certification purpose
- Certification
 - Geodesy
 - Land consolidation
- Certification procedures



MAA-AMET

Geodetic regulation



Geodetic regulation

- Geodetic regulation is divided
 - National geodetic networks – Ministry of the Environment → Land Board (**Spatial Data Act**)
 - Cadastal works – Ministry of the Environment → Land Board (**Land Cadastre Act**)
 - Constructional geodesy – Ministry of Economic Affairs and Communication (**Building Code**)
- Local municipalities



MAA-AMET

Certification purpose



Geodetic works in higher geodesy

- Geodetic works may be performed by a person who has the qualification of a geodesist which corresponds at least to Level 7 in the field of higher geodesy for national geodetic network
- Geodetic works may be performed by a person who has the qualification of a geodesist which corresponds at least to Level 6 in the field of higher geodesy for local geodetic network



Geodetic works in constructional geodesy

- Geodetic works may be performed by a person who has the qualification of a geodesist which corresponds at least to Level 6, on the field of constructional geodesy or topo-geodetic survey or engineering survey
- Possible as well through educational requirements (applied higher education, master degree)



Land consolidation and cadastral surveying

- Professional certificate of land surveyor in the field of land consolidation
- License for cadastral surveys (issued by ELB)
 - person has performed two test assignments and has passed an examination in the theory and practice of land consolidation
 - Requirements: higher education or secondary or vocational secondary education in land consolidation or surveying and 3-years of professional experience



MAA-AMET

Certification



Certification

- Land surveyor (level 4)
 - or surveying technician
- Land surveyor (level 5, 6, 7) – geodetic works
 - or geodesist
- Land surveyor (level 5, 6, 7) – land consolidation



Surveying technician, level 4

- Requirements
 - Secondary education + work experience 3y + complement training 8h + portfolio
 - Vocational education (professional) + portfolio
- Specification
 - Constructional geodesy
 - Topo-geodetic survey
 - Cadastral survey



Geodesist, level 5

- Requirements

- vocational education* + work experience 5y + complement training 24h + portfolio
- Bachelor degree* + work experience 4y + complement training 8h + portfolio
- Applied higher education* + work experience 3y + complement training 8h + portfolio
- Master degree* + work experience 1y + portfolio

* professional



Geodesist, level 5

- Specification
 - Constructional geodesy
 - Engineering surveys
 - Topo-geodetic survey



Geodesist, level 6

- Requirements
 - vocational education* + work experience 10y + complement training 32h + portfolio
 - Bachelor degree* + work experience 8y + complement training 24h + portfolio
 - Applied higher education* + work experience 6y + complement training 24h + portfolio
 - Master degree* + work experience 5y + complement training 16h + portfolio
- * professional



Geodesist, level 6

- Specification
 - Constructional geodesy
 - Engineering surveys
 - Topo-geodetic survey
 - Higher geodesy



Geodesist, level 7

- Requirements
 - Master degree (professional) + work experience 10y + complement training 32h + portfolio
- Specification
 - Constructional geodesy
 - Engineering surveys
 - Topo-geodetic survey
 - Higher geodesy



Land surveyor, level 5

- Requirements
 - vocational education* + work experience 3y + 3 complement trainings + portfolio
 - Bachelor degree* + work experience 3y + 3 complement trainings + portfolio
 - Higher education (not professional) + work experience 5y + 3 complement trainings + portfolio
 - Master degree* + work experience 1y + portfolio
- *professional



Land surveyor, level 6

- Requirements
 - Bachelor degree* + work experience 5y + 3 complement trainings + portfolio
 - Higher education (not professional) + work experience 8y + 3 complement trainings + portfolio
 - Master degree* + work experience 3y + 3 complement trainings + portfolio
- *professional



Land surveyor, level 7

- Requirements
 - Master degree (professional) + work experience 5y + 3 complement trainings + portfolio



Land surveyor

- Level 5: Cadastral surveying, land consolidation procedures, consultations on land consolidation and cadastral surveying
- Level 6: Land consolidation procedures, consultations on land consolidation, participation in the development of plannings
- Level 7: Land consolidation procedures, consultations on land consolidation, participation in the development of plannings



MAA-AMET

Certification procedures



Certification procedures

- Primary application
- Renewal of application

- Primary application → professional certificate for 5 years
- After expiration of professional certificate → renewal of application



Assessment (geodetic works)

- Primary application:
 - Evaluation by documents
 - Written exam (in some cases mandatory)
 - Conversation/interview (if necessary)
- Renewal of application:
 - Evaluation by documents
 - Conversation/interview (if necessary)



Assessment (land consolidation)

- Primary application
 - Evaluation by documents
 - Written exam (mandatory)
 - Theoretical test (incl. Laws)
 - Case assignment (problem-solving)
- Renewal of application
 - Evaluation by documents



Call for applications

- Association of Estonian Surveyors acts as provider of the professional certificates from 2004
- Twice a year (deadlines April/October)
- Approx 50 applications per one call



Call for applications

- AES has nominated professional Committee (11 members)
- Opinions from committee members collected and inserted to google-docs (materials are available in servers)
- Committee meeting to discuss and approve decisions



MAA-AMET

Geodetic regulation (cont)



Geodetic regulation

- Spatial Data Act (17.02.2011)
 - Decree of geodetic system (26.10.2011)
 - Statute of geodetic point database (22.12.2011)
 - Decree of geodetic works, designation of geodetic marks, protection zone of geodetic marks and the organisation of activities in the protection zone (28.06.2013)



Geodetic regulation

- Land Cadastre Act (12.10.1994)
 - Decree for the requirements for test assignments, the examination and education for the license holder for land consolidation works (20.02.2006)
 - Decree for cadastral surveys and the control of the cadastral surveys (23.10.2003)



Geodetic regulation

- Building Code (11.02.2015)
 - Decree for the requirements of topo-geodetic and as-built measurements (28.04.2016)



Geodetic regulation

- Local municipalities
 - Decrees for establishing local geodetic network
 - Decrees for regulation procedures of topo-geodetic surveys



Thank you for your attention!

- Questions?
- Karin.Kollo@maaamet.ee

