



Title of the Training Program	Using digital tools for trees in urban environments
EQF level	4
Basis for developing the training program	EQF Level 4 landscape gardener professional qualification standard (Estonia)
Target groups	Landscape contractors: employers and employees, VET educators in urban greening, arborists and tree care workers
Prerequisites for enrolling	Prior work experience in landscaping sector or corresponding VET school; independent user of English
Objectives	Landscapers' updated knowledge, skills and approaches meeting green transition needs
Learning outcomes	As a result of this training, learnersexplain how sustainable urban greening contributes to climate change mitigation and the role of trees in urban environments; ... operate soil sensor technology to collect and analyze digital data for urban tree management; ... apply sensor-based insights to make informed decisions that strengthen the resilience of urban trees; ... develop their ability to learn, collaborate, and communicate effectively in international contexts.
Volume	Virtual online team learning 16 academic hours; contact learning 3 days x 8 academic hours = 24 hours. Total volume of the program 40 hours.

Contents	Task #1: Benefits of urban trees (online group work) Learning Outcome: Learners explain how sustainable urban greening contributes to climate change mitigation and articulate the ecological, social, and health-related roles of trees in urban environments. Learners are introduced to benefits of using sensors in urban environments. Task #2: Using sensors: collecting and analysing data Learning Outcome: Learners operate soil sensor technology to collect and analyze digital data for effective urban tree management. Task #3: Designing sensor data interface to meet efficient maintenance needs Learning Outcome: Learners apply digital skills to create user-friendly data interfaces that support evidence-based decision-making in urban tree care. Task #4: Interpreting data for resilient urban trees Learning Outcome: Learners use sensor-based insights to make informed decisions that strengthen the resilience of urban trees and contribute to sustainable maintenance. Pertaining to all tasks: Learners develop their ability to learn collaboratively, share knowledge, and communicate effectively in international and intercultural contexts.
Teaching methods	Case study, group work, analysis, group discussions, data interpretation, practical assignment using different approaches: explaining information to oneself or others, making one's own conclusions and hypotheses, asking questions, searching for examples, synthesizing different pieces of information, making predictions, arguing, presenting information in another form, debating, discussing, reasoning, etc.

Materials	Web-based sources: Using soil moisture sensors to optimise irrigation for newly planted urban forests How Tree Sensors Are Being Used Around the World Trainers materials and case studies Data collected from sensors Glossary of relevant terms Cheat sheets and/or video library by SoilMania Materials created collaboratively during the training
Graduation requirements	Learning outcomes have been achieved: digital and on-site assignments have been completed
Certification	Certificate of Achievement by Yebisu Eesti Ltd
Trainers	Dr Andrew Hirons (UK/the Netherlands), Willy Detiger (the Netherlands)