

**LAB-ammattikorkeakoulu
2025-2026**

Circular Economy Solutions 25S, online studies

Tunnus	Nimi	Op yht
MLTIYCES25SV	Circular Economy Solutions 25S, online studies	60
MLTIYCES25SV-1004 Core competence		15
YY00DF24	Circular Economy for Global Sustainable Transformation	5
YY00DF25	Circular Economy Research Methods and Case Studies	5
YY00DF26	Sustainable Processes and Product Development	5
MLTIYCES25SV-1005 Complementary competence		15
MLTIYCES25SV-1003 Thesis		30
YO00CF53	Thesis Planning	10
YO00CF54	Thesis Project and Reporting	20

MLTIYCES25SV Circular Economy Solutions 25S, online studies: 60 op

MLTIYCES25SV-1004 Core competence: 15 op

YY00DF24 Circular Economy for Global Sustainable Transformation: 5 op

Osaamistavoitteet

The student is able to

- understand the key principles of the circular economy and their significance in promoting sustainable development.
- understand and utilise circular economy strategies and roadmaps.
- apply circular economy concepts and strategies across various industrial sectors, identify business opportunities offered by the circular economy, and assess their environmental impacts.
- analyse and design circular economy solutions that support ecological, economic, and social sustainability.

YY00DF25 Circular Economy Research Methods and Case Studies: 5 op

Osaamistavoitteet

The student is able to

- understand quantitative and qualitative research methods.
- find and utilise scientific publications and research data responsibly, understand the field and practices of open professional and scientific publishing.
- understand research, development and innovation activities, and the roles of various stakeholders as well as examples of regional, national and international projects in circular economy.
- increase abilities in research, development and innovation project preparation skills based on

strategic understanding, latest knowledge and innovation insights.

YY00DF26 Sustainable Processes and Product Development: 5 op

Osaamistavoitteet

The student is able to

- understand and apply key sustainability concepts and methods in process and product management.
- assess and develop organisational processes to align with sustainability and circular economy principles.
- optimize resource use to extend lifecycle and maintain value in production, product design, and organisational projects.
- understand and enhance utilisation of renewable energy solutions as a basis of sustainable development activity; wind, solar, geothermal, biofuels, biogas and hydrogen.
- identify the innovation opportunities of sustainable development and the development and business opportunities of intellectual property rights (IPR).

MLTIYCES25SV-1005 Complementary competence: 15 op

MLTIYCES25SV-1003 Thesis: 30 op

YO00CF53 Thesis Planning: 10 op

Osaamistavoitteet

The student is able to

- describe the objectives and core contents of their thesis.
- plan and describe the stages of the thesis process.
- take into account the possible research permit and copyright issues.

YO00CF54 Thesis Project and Reporting: 20 op

Osaamistavoitteet

The student is able to

- implement the thesis on the basis of an approved thesis plan.
- present the results or output of their thesis.
- report on their thesis in writing in accordance with the thesis guidelines of LAB University of Applied Sciences.
- as a maturity test, write a blog post, a press release or an article.