

PRESS RELEASE

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NEW COURSE LAUNCH

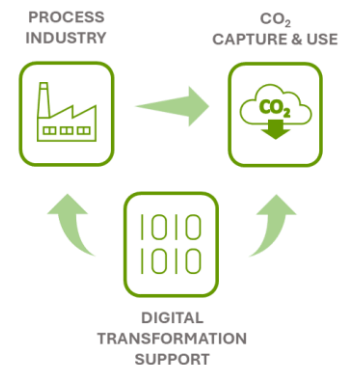
Climate Action:

The Role of Digital Transformation in the Process Industry

Climate change is one of the most pressing challenges of our time. This free online course aims to bridge the gap between climate action and digital innovation in the process industry. The course is designed to empower individuals, professionals and organizations, in academia and industry, to leverage Industrial Digital Transformation for a cleaner, greener future.

About the Course: Developed within the scope of the THREADING-CO₂ project, “Climate Action: The Role of Digital Transformation in the Process Industry” offers a comprehensive introduction to the intersection of sustainability and digital transformation in the process industry. It combines fundamental core concepts as building blocks of knowledge, with testimonials from industry professionals and interactive assignments. The course covers:

- The connection between the process industry, climate change and sustainable actions towards a low-carbon economy.
- Carbon capture technologies and chemical valorisation of CO₂ as a carbon source for the production of fuels and goods.
- How digital tools like the Internet of Things (IoT), cloud computing and AI are reshaping the process industry.
- Illustrative examples of Digital Transformation for industrial decarbonization in design, operation and deployment.
- Multidimensional aspects of Digital Transformation, such as human workforce, machines and Industry 5.0.



Who should enroll? The course is open to everyone, regardless of background or experience. It is particularly beneficial for providing an overview for industry professionals and university students. It seeks to foster creativity, systemic vision and problem-solving ability. Participants gain practical insights applicable to real-world challenges.

How to enroll? Registration for the course can be done at any time on the LUT MOOC (Massive Open Online Course) Platform, mooc.lut.fi. Participants can learn at their own pace and a certificate is automatically available upon completion. University students can take advantage of course credits. Join a growing community dedicated to making a difference.

About Lappeenranta-Lahti University of Technology (LUT University): Clean energy, water and air are life-giving resources for which we at LUT University seek new solutions with our expertise in technology, business and social sciences. We help society and businesses in their sustainable renewal. We are one of the top universities in the world for climate action.

**For additional information,
please contact:**

Prof. Esa Vakkilainen
Sustainable Energy Systems
Esa.Vakkilainen@lut.fi

LUT University
Lappeenranta
www.lut.fi