



## Industry 4.0 - Introduction

Would you like to know what Industry 4.0 is about? Then this course is for you!

In the course, we look at enabling technologies of Industry 4.0 from a human and industrial perspective. The course covers many topics, and you will learn the basic terminology related to Industry 4.0 as well as gain insight and understanding of the Fourth Industrial Revolution and how it is set to affect industry and individuals.

We learn what Industry 4.0 is about and discuss potential benefits and challenges with these new enabling technologies. On completing the course, you will have a conceptual understanding of key terms and technologies related to Industry 4.0.

### YOU WILL LEARN TO

- Understand and exemplify the impact of digitalization on industry and humans in daily life both now and in the future.
- Understand the system landscape in Industry 4.0 and its terminology/ technology (VR, AR, AM, AI, IoT, Cloud Computing, Big Data Analytics, Cyber-physical system, etc.)
- Exemplify Industry 4.0 technologies in industrial cases and describe potential benefits and challenges.
- Assess maturity level of digitalization transformation in production system.

### TEACHER

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Mats Ahlskog works as a researcher at Mälardalen University. He has previously worked in industry for twenty years as a production engineer and with research and development of new manufacturing technologies.

### DETAILS

**STUDY PERIOD:** March 29, 2021 – June 6, 2021

**STUDY PACE:** 33% (approx. 13 hours/week)

**CREDITS:** 5

For more information about the course and how to apply, visit

[mdh.se/en/malardalen-university/education/further-training/smart-production](https://mdh.se/en/malardalen-university/education/further-training/smart-production)

### ENTRY REQUIREMENTS

30 credits in Engineering/Technology and at least two years' experience in full-time in a relevant area within industry. If you do not have the formal qualifications required, you may have your eligibility evaluated based on knowledge acquired in other ways, such as work experience, other studies etc.

### PREMIUM

The course is included in the Premium project, which is partly funded by the Knowledge Foundation. You can find more information about Premium at [mdh.se/premium](https://mdh.se/premium)

### MÄLARDALEN UNIVERSITY

Mälardalen University (MDH) is one of Sweden's largest HEIs, with 16 000 students reading courses and programmes in Business, Health, Engineering and Education. At MDH, research is conducted within all areas of education. MDH's close cooperation with the private and public sectors enables us to help people feel better and the earth to last longer.

**GET AHEAD.  
STAY AHEAD.**