

# Sustainable Automation 2.5 hp

The products we all produce or use and the services we provide or benefit from are getting increasingly automated, from the factory to the home. However, what we usually miss are the societal, environmental, and economic impacts of automation and how it can affect goals related to sustainable development. Where lies the balance between an automated world and a sustainable one? The aim of the Sustainable Automation course is to therefore to develop understanding, vision and knowledge of the sustainability features and elements in each automation project. It also introduces how an automation project should be carried out considering sustainability features from planning to the implementation.

## Content

The course gives an introduction to sustainability. Furthermore, it covers sustainability aspects in automation projects as well as how sustainability and Industry 4.0 are related. It also includes product lifecycle management (PLM).

## Industry and university

This course has been developed in collaboration with industrial partners in one of our education projects. The project aims at holding master's level courses for a mixed group of students and professionals to increase the competitiveness of the Swedish industry.

## Implementation and pedagogic concept

The course is based on University West's concept of *work integrated learning*, which aims at integrating both theory and practice in education. Theoretical lectures are combined with case studies and practical examples.

## Web-based

The course is given via distance in flexible net-based form. On-line lectures are combined with supervision and reporting meetings using web-based meeting systems. Some course meetings are compulsory.

## Course material

PowerPoint files, and *Articles*

## Target audience

Professionals within the manufacturing industry

## Prerequisites

Three years of higher education (Bachelor level) in engineering & technology (Bachelor degree corresponding to 180CP)

Alternatively relevant professional work experience.

Attach resume if your application is based on work experience. A template (in Swedish) is available at our website [www.hv.se/produktionskurser](http://www.hv.se/produktionskurser)

## Examination

The course is examined via a written assignment together with a presentation.

## Registration

Course registration via University West's website [www.hv.se/produktionskurser](http://www.hv.se/produktionskurser)

## More information

For more information, please contact [produktionskurser@hv.se](mailto:produktionskurser@hv.se)