



# CH107V Methods for development of sustainable work 3.5 credits

Metoder för att utveckla hållbara arbeten

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

## Establishment

Course syllabus for CH107V valid from Autumn 2024

## Grading scale

P, F

## Education cycle

First cycle

## Main field of study

Technology and Health

## Specific prerequisites

120 credits in technical science, natural science, medical science or human resources science. Alternatively, at least 2 years of professional experience in work environment development. English B/6

## Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

## Intended learning outcomes

The overall aim of the course is to give the student theoretical and practical knowledge on how general work environment development should be pursued, how work accidents can be prevented, how ergonomics and organizational factors can be assessed and developed. After completing the course, the student should be able to:

1. Understand and describe methods and processes used in sustainable work environment work.
2. Explain how risks of occupational accidents can be identified and prevented.
3. Describe what ergonomic risks are and how they can be identified and prevented.
4. Describe the organizational and social work environment, as well as how risks can be identified and prevented.
5. Describe the concept of Man-Technology-Organization.

## Course contents

The aim of the course is to give the student an overall picture of health risks in the work environment and the work-related ill-health that occurs in various industries in working life, as well as to discuss how, through work environment development, workers in these industries can be prevented from ill-health suffering.

- Systematic work environment development - difficulties and solutions
- Models – production systems and human-technology organization
- Risk management – prevention of occupational accidents
- Work and health - including ergonomics - in a holistic perspective

## Examination

- PRO1 - Project work, 1.0 credits, grading scale: P, F
- SEM1 - Seminars, 1.0 credits, grading scale: P, F
- TEN1 - Written exam, 1.5 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Project work (PRO1 , 1.0 credits) grading scale: P, F, examines course objectives 2 and 3

Seminars (SEM1, 1.0 credits) with compulsory attendance, grading scale P/F, examines course objectives 1 - 5

Exam (TEN1, 1.0 credits) grading scale: P, F, examines course objectives 1, 4 and 5

The final grade is based on all modules based on the P/F grading scale.

## **Ethical approach**

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.