



MG2016 Enlarged Welding Technology for EWE/IWE 6.0 credits

Svetsteknologi, påbyggnadskurs för EWE/IWE

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 MG2016 valid from Autumn 2019

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Specific prerequisites

MG1010 Introductory Welding Technology, general course
MG1011 Introductory Welding Technology, advanced course
MG1012 Non-Destructive Testing

or the equivalent

Language of instruction

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

Intended learning outcomes

After passing this course, the student will be able to

- select proper material and components for welded structures, according to best practice
- explain and use important standards for quality assurance and production of welded structures
- develop proper procedures for welding manufacturing
- compile and present valid requirements for specific cases of welded structures
- present the contents of regulatory documents such as welding and inspection plans
- give an account of when third party certification and inspection is required, and of the required documents
- discuss the need and level of non-destructive and destructive testing

Course contents

Exercises, studies of use cases and presentations on application solutions

Disposition

The course is given during two full weeks of intense studies.

External experts give lectures and exercises in their expertise areas.

Seminars with discussions in conjunction with lectures

Oral and written presentations of individual case studies and laboratory exercises

Course literature

SIS HB 514 Kvalitetssäkring vid svetsning

Utdelat material under kursens gång

Examination

- DEL1 - Attendance, - credits, grading scale: P, F
- INL1 - Assignment, 1.5 credits, grading scale: P, F
- TEN1 - Written exam, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- ÖVN1 - Exercise, 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.

In addition to the examination modules, sufficient attendance is required

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.