



# FMH3909 Clean Steel with Focus on Tundish Technology 6.0 credits

Rent stål med tonvikt på gjutlådeteknologi

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 FMH3909 valid from Autumn 2020

## Grading scale

P, F

## Education cycle

Third cycle

## Specific prerequisites

Admitted to doctoral studies, in the subject of technical materials science.

## Language of instruction

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

# Intended learning outcomes

After completing the course, the student should know:

- What size and shape of inclusion are harmful for mechanical properties of steel
- The main sources of inclusions in steelmaking
- Mechanisms that favour the separation of inclusions from molten steel
- Equations that can be used to predict the separation rate of inclusions
- Technological solutions for minimizing inclusions in the production of pure steel.

## Course contents

In-depth knowledge with respect to the manufacturing of clean steel with a focus on non-metallic inclusions as well as tundish technology.

## Examination

- PRO1 - Project, 6.0 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.

## 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.