



# HM1021 Quality Tools for Continuous Improvement 7.5 credits

Kvalitetsverktyg för ständiga förbättringar

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 HM1021 valid from Autumn 2015

## Grading scale

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

## Education cycle

First cycle

## Main field of study

Technology

## Specific prerequisites

For students admitted to the TIMAS programme: the course ML1113 or the equivalent.

For all other students: General entry requirements and 5 credits of basic statistics, 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 the course, the student should be able to:

- argue for the importance of permanent improvements
- tackle technical problems in a systematic way
- explain methods and philosophies for improvements and compare their applicability
- choose statistical tools from a given problem profile and plan for implementation, carry out, analyse and draw conclusions about the results and argue for the choices/conclusions
- communicate and explain statistical tools/results and arguments orally and in writing, in a clear way

## Course contents

Concepts/tools and non-statistical and statistical improvement methods that are used within deviation handling and improvement work in the industry today

## Disposition

- Lectures
- Exercises
- Seminars

## Course literature

Bergman, B. och Klefsjö, B. (2012). Kvalitet från behov till användning. Femte upplagan., Lund: Studentlitteratur **ISBN: 9789144078250**

Handouts, artiklar och föreläsningmaterial

## Examination

- SEMA - Seminars, 3.0 credits, grading scale: P, F
- TENA - Written examination, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- ÖVNA - Exercises, 3.0 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.

## Other requirements for final grade

Approved practical assignments Passed written examination Passed seminars

The final grade is primarily depending on the result of the written examination, but can be influenced by the performance in the exercises.

## 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.