ML1609 Quality Technology and Improvement 6.0 credits

Kvalitetsteknik och förbättringsarbete

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

Establishment

The official course syllabus is valid from the autumn semester 2025 as decided by the Faculty Board: HS-2025-0013. Date of decision: 2025-06-09

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Completed module SEM1 in ML1618 and completed course ML1604 and ML1605

Intended learning outcomes

On completion of the course the student should be able to:

- account for how continuous improvement and design of experiments in industrial maintenance is carried out

- systematically address problem solving in technical applications
- explain methods and philosophies in continuous improvements as well as compare the applicability of those
- plan for and use relevant approaches, working methods and tools in industrial continuous improvement

Course contents

Concept/tools as well as non-statistic and statistical improvement methods used in deviation management and improvement work in industry.

Examination

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

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

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.