



ML2136 Operational Development by Quality Tools and Statistics 15.0 credits

Verksamhetsutveckling genom kvalitetsverktyg och statistik

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

Establishment

Course syllabus for ML2136 valid from Autumn 2015

Grading scale

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

Education cycle

Second cycle

Main field of study

Industrial Management

Specific prerequisites

The course is given only for students admitted to the program Project Management and Operational Development

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 be able to:

- Argue for the importance of continuous improvements and create a working method for continuous improvements within an organisation
- Explain methods and philosophies for improvements and compare applicability
- To by means of statistical methods account for risk management and draw conclusions from risk analysis in quality assurance work
- On the basis of a technical problem profile choose statistical method/tool for problem-solving and plan for implementation; carry out, analyse and draw conclusions about the results and argue for the choice and the conclusions
- Communicate and explain statistical methods/tools/results and argue orally and in writing, in a clear way
- Explain and argue for quality statistics and risk management's effect for an efficient and successful work for development of world-class processes

Course contents

Concepts/tools and non-statistical and statistical methods for quality, risk management and continuous improvements

Disposition

- Lectures
- Seminars
- Exercises

Course literature

Kurslitteraturen meddelas senast fyra veckor före kursstart

Examination

- SEM1 - Seminar, 4.0 credits, grading scale: P, F
- ÖVN1 - Exercises, 6.0 credits, grading scale: P, F
- TEN1 - Examination, 5.0 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.

Other requirements for final grade

The final grade of the course is largely based on results from the written examination of the course but is influenced by the execution of practical assignments and seminar assignments.

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.