

Course code: KVM200

Quality and environmental management, 5 HE credits

Kvalitets- och miljöledning, 5 hp

Established: 2022-06-09

Established by: Department of Engineering Science

Applies from: H22

Learning outcomes

Knowledge and understanding

After completing the course, the student should be able to show knowledge of:

- principles and concepts of quality.
- quality tools.
- standards for quality management systems, such as ISO 9000.
- principles and concepts of sustainability.
- environmental requirements for the manufacturing industry.
- standards for environmental management systems, such as ISO 14000.

Competence and skills

After completing the course, the student should be able to:

• select and apply appropriate quality tools and methods to handle a given scenario.

Entry requirements

General entry requirements

You also need: Physics 2, Chemistry 1, Mathematics 3c or Mathematics D

The forms of assessment of student performance

Individual written exam. Group task with oral presentation.

Course contents

The focus of the course is concepts of quality and environmental management and related methods and tools to control, improve and ensure the quality of products.

Special emphasis is placed on production for quality including statistical process control, seven improvement tools, control charts, etc. Basic knowledge and concept of each topic will be explained and elaborated on in the course. Quality management systems, i.e. ISO 9000 series and some similar standards (e.g. QS-9000, etc.) will be introduced to students.

The course also deals with sustainability in industrial manufacturing and relevant ISO standards, e.g. ISO 14000.

COURSE SYLLABUS



Course code: KVM200

Other regulations

Course grading: U/3/4/5

Course language: The teaching is conducted in English.

General rules pertaining to examination at University West are available at www.hv.se.

If the student has a decision/recommendation on special support due to disability, the examiner has the right to examine the student in a customized examination form.

Course Overlap

Read about course overlap in the Swedish version of this course syllabus.

Cycle

First cycle

Progressive specialization

G1N - first cycle, has only upper-secondary level entry requirements

Main field of study

Mechanical Engineering