



COURSE SYLLABUS

Kvalitetsutveckling Quality Development 7.5 credits (7,5 högskolepoäng)

Course code: MT1448
Main field of study: Mechanical Engineering
Disciplinary domain: Technology
Education level: First cycle
Specialization: GIN - First cycle, has only upper-secondary level entry requirements

Language of instruction: Swedish
Applies from: 2021-09-15
Approved: 2021-09-20

1. Decision

This course is established by Department of Mechanical Engineering 2013-11-20. The course syllabus is approved by Head of Department of Mechanical Engineering 2021-09-20 and applies from 2021-09-15.

2. Entry requirements

General requirements for university studies.

3. Objective and content

3.1 Objective

In this course, students acquire basic knowledge and skills on quality development and will be introduced to modern views on the concept of quality.

3.2 Content

- History
- Development
- Values
- Directives
- Standards

4. Learning outcomes

The following learning outcomes are examined in the course:

4.1 Knowledge and understanding

On completion of the course, the student will be able to:

- be able to describe the foundation for a modern quality approach.
- have knowledge of the directives that concerns quality.
- understand terminology in the field and how ISO 9000 is built and used in practice.
- be able to explain how a quality system is built, reviewed and kept up to date.
- have knowledge of the environmental management standard ISO 14000 and understand its importance to sustainable development and the link to quality system.

4.2 Competence and skills

On completion of the course, the student will be able to:

- be able to use tools and methods to ensure quality, preventive approach to continuous improvement.

4.3 Judgement and approach

On completion of the course, the student will be able to:

- be able to understand the importance of values and mental models in learning organizations.

5. Learning activities

Instruction is entirely at distance by using a learning platform. The literature is studied individually and applied to a number of

tasks to be submitted individually. The supervisor of the course then examines the data submitted and provide comments on them.

6. Assessment and grading

Modes of examinations of the course

Code	Module	Credits	Grade
I405	Assignment 1	1.5 credits	GU
I415	Assignment 2	1.5 credits	GU
I425	Assignment 3	1.5 credits	GU
I435	Assignment 4	1.5 credits	GU
I445	Final Presentation	1.5 credits	AF

The course will be graded A Excellent, B Very good, C Good, D Satisfactory, E Sufficient, FX Fail, supplementation required, F Fail.

If grade FX are given, the student may after consultation with the course coordinator / examiner get an opportunity to within 6 weeks complement to grade E for the specific course element.

The information before a course occasion states the assessment criteria and make explicit in which modes of examination that the learning outcomes are assessed.

An examiner can, after consulting the Disability Advisor at BTH, decide on a customized examination form for a student with a long-term disability to be provided with an examination equivalent to one given to a student who is not disabled.

7. Course evaluation

The course evaluation should be carried out in line with BTH:s course evaluation template and process.

8. Restrictions regarding degree

The course can form part of a degree but not together with another course the content of which completely or partly corresponds with the contents of this course.

9. Course literature and other materials of instruction

Bergman, B. & Klefsjö, B. Kvalitet från behov till användning. Senaste upplagan. Studentlitteratur, Lund.

Webb-material.

10. Additional information

Replaces MTI108, MTI203, MTI406.