



# HÖGSKOLAN I GÄVLE

## Management and Control of Quality 7.5 cr

*Kvalitetsutveckling 7,5 hp*

Set by Board of Technology and Built Environment

### Version

Set at	Valid from
2/12/10	<a href="#">HT2008</a>
5/29/18	<b>VT2019</b>

<b>Level</b>	G1F
<b>Education level</b>	First cycle
<b>Course identifier</b>	KS720B
<b>Credits</b>	7.5 cr
<b>Main field of study</b>	Industrial Economics
<b>Subject group</b>	Industrial Engineering and Management
<b>Disciplinary domain</b>	Technology 100.0 %

**Learning outcomes** The course intends to deepen knowledge of quality and improvement work. On completion of the course, the student is expected to:

- 1a) be able to identify and estimate costs for quality deficiency costs in companies
- 1b) be able to search and find fundamental reasons for and give suggestions for improvements that decrease or eliminate quality deficiency
- 1c) be able to present expected learning outcomes 1a and 1b in writing and orally.
- 2a) have knowledge of Lean Production and review its advantages and disadvantages critically
- 2b) have understanding and knowledge of process orientation
- 3) have insight in the contents of ISO 9000 and be able to review its application critically

**Course content**

- Quality deficiency costs
- FMEA/FTA (Failure mode and effects analysis/Fault tree analysis)
- Process management
- Quality management systems: ISO 9000
- Lean Production
- Quality and environment

<b>Teaching</b>	The teaching is given in the form of lectures, exercises, group assignments and seminars.
<b>Prerequisites</b>	Total Quality Management and Technology I or the equivalent.
<b>Examination</b>	Written examination, seminars and project work.
<b>Grade</b>	A, B, C, D, E, Fx, F
<b>Sustainable environment</b>	A minor part of the course content deals with sustainable development.

<b>Module</b>			
	0080 Written examination	2 cr	Grade: AF
	0090 Failure mode and effects analysis	0.5 cr	Grade: UG
	0100 Seminars	3 cr	Grade: UV
	0110 Project work including presentation and public discussuion	2 cr	Grade: UV