



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	HT2008
5/29/18	VT2019

Level	G1F
Education level	First cycle
Course identifier	KS720B
Credits	7.5 cr
Main field of study	Industrial Economics
Subject group	Industrial Engineering and Management
Disciplinary domain	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

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

Module			
	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