Linnæus University

Course syllabus

Faculty Board of Science and Engineering
School of Engineering

4SE303 Fallstudie II, 7,5 högskolepoäng
Case Study II, 7.5 credits

Main field of study
Total Quality Maintenance

Subject Group
Industrial Engineering and Management

Level of classification
Second Level

Progression
A1F

Date of Ratification
Approved by Organisational Committee 2009-07-24

The course syllabus is valid from spring semester 2010

Prerequisites
Basic eligibility and knowledge corresponding to Maintenance Organisation, 7.5 and Asset Health Management II , 7.5.

Expected learning outcomes

After completing the course the student is expected to be able to

- understand and evaluate existing work methods for integrating quality, operation, maintenance, logistics and economy in a manufacturing company
- understand the relevant concepts, tools and methods for production system analysis
- use the Maintenance Function Deployment (MFD) analysis tool
- plan and implement a development task in part of a manufacturing company, e.g. quality, maintenance or logistics, taking into consideration the whole activity of the company (the holistic view)

Content

The course comprises the following elements:

- identifying the crucial elements in the production process of manufacturing companies
- coordination between these elements (and their mechanisms)

• methods for analysing company activity
• a systematic work method for identifying and estimating as well as eliminating company losses with regard to maintenance activities, MFD
• a presentation of the use for a company of applying MFD and how it can be realised

Type of Instruction

The teaching consists of lectures, group work, laboratory work, submitted assignments and a case study.

Examination

The course is assessed with the grades U,3,4 or 5.
The examination is based on submitted reports and the oral or written presentation of compulsory assignments.

Course Evaluation

When the course has finished, an evaluation is compiled. The results are reported to the students and then archived according to the rules of the school.

Other

Some course elements may involve costs that have to be defrayed by the course participant. The course is offered in English if there are international participants.

Required Reading and Additional Study Material

Required reading

Al-Najjar, Basim. Economic importance of maintenance planning when using vibration-based maintenance policy (compendium) 100 s. (100)

Current articles