



Course syllabus

Faculty of Technology
Department of Mechanical Engineering

1SE016 Underhållsplanering, 7,5 högskolepoäng
Maintenance planning, 7.5 credits

Main field of study

Total Quality Maintenance

Subject Group

Industrial Engineering and Management

Level of classification

First Level

Progression

G1F

Date of Ratification

Approved 2009-11-16

Revised 2013-06-15 by Faculty of Technology. Review of Literature.

The course syllabus is valid from autumn semester 2013

Prerequisites

Basic eligibility and knowledge corresponding to Industrial Measurement and Failure Analysis (SE9011, 7,5 hp) and Business Driven Quality Maintenance (SE9001, 7,5 hp), or the equivalent.

Objectives

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

- account for commonly used maintenance philosophies and strategies
- describe how the maintenance could be planned
- apply theories and methods within maintenance planning
- understand the importance of maintenance from technical and economic perspectives

Content

The course comprises the following elements:

- Maintenance planning
- Production reliability
- Various maintenance approaches, e.g. corrective, preventive, condition-based, reliability-centred maintenance (RCM), total productive maintenance (TPM) and total quality maintenance (TQMain)
- Maintenance resources
- The economic importance of maintenance

Type of Instruction

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

Examination

The course is assessed with the grades U,3,4 or 5.

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

The examination is based on submitted reports and oral or written presentation of compulsory assignments.

Course Evaluation

A course evaluation will be carried out and compiled after the course is completed. The compilation will be presented to the current board as well as to the students and filed by the coordinating department.

Credit Overlap

Overlaps to about 5 hp with SE9983.

Other

Some elements of the course may entail costs defrayed by the course participant.

The course language is English if international students attend the course.

Required Reading and Additional Study Material

Required reading

Hagberg, Leo & Henriksson, Tomas, *Profitable maintenance: 8 steps to assured production. Parts 1-8*.

Stockholm: Mentor Communications, Latest edition. ca 250/600 pages.

The course material also consists of scientific articles and lecture materials. This material is recommended and/or supplied by the course coordinator.

Recommended literature

Crespo Márquez, A., *The Maintenance Management Framework*, London: Springer, 2007.