**1 Name, Scope and Level of the Course**
The course is provided by the University of Skövde and is named Maintenance and Operation Reliability 1 G1N. It comprises 7.5 credits and is on basic level. The level of progression of the course is G1N.

**2 Objectives**
After completed course the student should be able to:

- describe the definitions in maintenance and its terminology,
- describe the need for process management and its application in maintenance,
- understand the meaning of different roles and functions within the maintenance organization,
- describe the economic importance of maintenance and key concepts,
- understand the nature and use key performance indicators in maintenance,
- describe different types of requirements for maintenance activities and how to achieve them.

**3 Course Content**
This course is an introduction course in maintenance and operation reliability. It contain different types of maintenance and its definitions and related terminology and underlying standards. The course also bring up the most common processes and requirements that occur within a maintenance organization. Further addresses the economic importance of maintenance and its calculation methods. The course mixes theory and practical application in a project that extends throughout the course.

**4 Forms of Teaching**
The teaching comprises lectures and project work.

The teaching is conducted in Swedish. Some teaching in English may occur.

**5 Examination**
The course is graded VG (Pass with distinction), G (Pass) or U (Fail).

Registration of examination results:

<table>
<thead>
<tr>
<th>Name of examination</th>
<th>Credits</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supervised examination¹</td>
<td>4 credits</td>
<td>VG/G/U</td>
</tr>
<tr>
<td>Project work</td>
<td>3.5 credits</td>
<td>G/U</td>
</tr>
</tbody>
</table>

¹ Determines the final grade of the course.

Students with a permanent disability who have been approved for special educational support may be offered adapted or alternative examinations.

**6 Admission Requirements**
General requirements for university studies (or the equivalent).
Subject, Main Field of Study and Disciplinary Domain

The course forms a part of the academic subject area of Industrial Engineering. The course is a part of the main field of study in Industrial Engineering at the University of Skövde. The disciplinary domain of the course is Technology.

Every course at the University of Skövde belongs to a subject. The division of subjects is used for follow-up and quality assurance. A main field of study is an area in which a degree can be awarded. Disciplinary domain is a division which is used by the government for the allocation of resources for studies at basic level and advanced level.

Approval of Course and Course Syllabus

The course was approved by the Curriculum Committee for Engineering Science on 4 December 2017. This course syllabus was approved by the Curriculum Committee for Engineering Science on 4 December 2017. It is valid from 1 July 2018.

Overlapping with Another Course

This course cannot constitute a part of a degree also containing a course the content of which is totally or partly equivalent to the content of this course.

Additional Information

Further information will be available on the university’s website before a course is given.

National and local regulations for higher education are available on the university’s website.

Upon completion of the course there will be a follow-up. The main purpose of this follow-up is to contribute to improvements of the course. The students’ experiences and views constitute one of the criteria for the follow-up and are gathered by means of course evaluations. The students will be informed of the results of the follow-up and any decisions regarding actions that are to be taken.

Course Literature and Other Educational Materials


Compendium - Maintenance and Operation Reliability