



# HN2008 Strategies for Safety

## 7.5 credits

### Säkerhetsstrategier

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This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

### Establishment

Course syllabus for HN2008 valid from Autumn 2011

### Grading scale

A, B, C, D, E, FX, F

### Education cycle

Second cycle

### Main field of study

Technology and Health

### Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

### Intended learning outcomes

After the course the student should be able to:

- describe and identify safety risks,
- explain the HTO (Human-Technology-Organization) concept and approach,
- analyze safety risks in the working environment from a HTO perspective,
- propose improvements or implement solutions to prevent or mitigate safety risks at work.

## Course contents

Safety and risk; individual and human-technology safety, risk management methods; HTO (Human-Technology-Organization), legislation, standards.

## Specific prerequisites

Academic first degree, 180 higher education credits/ECTS, in engineering or natural sciences or equivalent education.

# Course literature

Böcker, kapitel:

Risker i tekniska system: Grimvall, Jacobsson och Thedéen. Studentlitteratur, LUND (2003)

Kompendie med utdrag ur James Reasons Organizational accidents och ett appendix av Harms-Ringdahl Riskanalys i MTO perspektiv. INDEKS studentexpedition, KTH

Arbete och teknik på människans villkor: Bohgard m.fl. 2008, PREVENT. Främst från sektionen Information och interaktion i tekniska system, kapitel 7 och 8 men även hänvisning till övriga sektioner.

Vilken betydelse har mätetal för ledarskapet i en teamorganiserad verksamhet? Mattias Elg, kapitel 6 i Mot ett förändrat ledarskap? Ellström och Kock (red), Studentlitteratur, 2009

Artiklar (delas ut)

The concept of human errors: Is it useful for the design of safe systems in health care? Jens Rasmussen in Vincent, Ch., and deMoll, B. (Eds.) (1999): Risk and Safety in Medicine. London Elsevier

Can focus on safety culture become an excuse for not rethinking design of technology? Rollenhagen, 2010, artikel i Safety Science 48 (268-278).

Rapporter handböcker (finns digitalt alt delas ut):

Riskanalys och Händelseanalys-Handbok för patientsäkerhetsarbete: Socialstyrelsen, 2009

Att bygga säkerhet: Törner, Pousette och Larsson. Göteborgs universitet, 2008

Developing process safety indicators - step-by step guide; av Health and Safety Executive (HSE), UK, 2006

## Examination

- PRO1 - Project Work, 3.5 credits, grading scale: A, B, C, D, E, FX, F
- ÖVN1 - Exercises, 2.0 credits, grading scale: A, B, C, D, E, FX, F
- ÖVN2 - Exercises, 2.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Written exam (TEN1, 3 hp) Grade scale A-F

Assignments (ÖVN1, 2 hp) Grade scale P/F

Project (PRO1, 2,5 hp) Grade scale A-F

## Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.