



# MG2039 Production Systems- Change and Improvement 6.0 credits

Industriell produktion- förändring och förbättring

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

## Establishment

Course syllabus for MG2039 valid from Spring 2013

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

Mechanical Engineering

## Specific prerequisites

MG2029/MG2129 or MG2019, or equivalent

## Language of instruction

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

## Intended learning outcomes

On successful completion of this course you will

Be able to apply established methods to:

- Form, start and manage improvement teams
- Plan and lead a major development or change program for a production system

Have an understanding of:

- The root causes of why the shift from traditional production to resource-efficient production requires pedagogy, structure and leadership

-The attitude to changes in the way of working

## Course contents

The differences between traditional and lean/ resource efficient production.

Methods and tools for implementation of resource-efficient production.

Explanations to the difficulties of change.

Our attitude to the changes in ways of working.

Leadership styles and Leadership impact.

Improvement and the role of the improvement group.

To coach and to be coached.

Our need for a sense of coherence.

Relations between resource-efficient production, automation and organization.

Ways to combine pull order systems with traditional materials and production control systems.

## Course literature

Meddelas vid kursstart

## Examination

- SEM1 - Seminars and Literature Studies, 2.0 credits, grading scale: P, F

- INL1 - Homework Assignments, 4.0 credits, grading scale: A, B, C, D, E, FX, 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.

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

INL Assignments 4hp.

SEM1 Seminars and literature study, 2hp.

## 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.