



Course syllabus

Faculty of Technology

Department of Forestry and Wood Technology

4TS317 Lean-produktion i träindustrin, 7,5 högskolepoäng

Lean Production in the Wood Industry, 7.5 credits

Main field of study

Mechanical Engineering, Forest and Wood Engineering

Subject Group

Forest Science

Level of classification

Second Level

Progression

A1F

Date of Ratification

Approved by Faculty of Technology 2015-12-15

The course syllabus is valid from autumn semester 2016

Prerequisites

Basic eligibility for second-level studies as well as knowledge corresponding to the courses Forest products, 7.5 credits, Mechanics, 7.5 credits, Wood manufacturing, 7.5 credits and Virkets ytbehandling och kemisk modifiering (Wood finishing and chemical modification), 7.5 credits or equivalent.

Objectives

After completing the course the student will be able to:

- Describe the approach of the development of Lean Production concept
- Practice the techniques needed to establish a Lean Culture
- Describe and exemplify the difficulties and possibilities of introduction of new working methodologies
- Explain and discuss some of the prerequisites concerning development processes in forest and wood industry

Content

The course consists of following elements:

- Principles of Lean production
- The methods and tool box of Lean, deepening
- The role of management, Policy Deployment
- Organization and roles change
- Coaching and improvement cycles.
- TWI, Training Within industry
- Forest and Wood industrial development

Type of Instruction

Lectures, seminars, study visit and laboratory work. For distance students, a computer with internet access is necessary.

Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail (i.e. received the grade F).

This course is examined through project report and written exam.

Course Evaluation

During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously. The compiled report will be filed at the Faculty.

Other

Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

Required Reading and Additional Study Material

Requried Reading

Jeffrey K Liker, The Toyota Way, Liber, Upplaga: 1, ISBN13: 9789147089024, Antal sidor: 376

Mike Rother & John Shook Lära sig se Lean Forum ISBN: 978-91-974-1361-9

Conrad Soltero & Patrice Boutier, The 7 (Seven) Kata, ISBN: 9781439880777 Antal sidor: 157

John Shook, Lean Management- med hjälp av A3-analyser, Liber, ISBN: 9789147094493

John Bicheno & Mattias Holweg, The Lean Toolbox, fourth edition, ISBN: 9780954124458

Richard Berglund & Björn Westling, Lean i ledningen, Swerea IVF, ISBN 9789189158962. 108 sidor

Scientific articles in Lean Production, 250 pages.