



# AF1742 Business Economics and Quality Systems 7.5 credits

Byggekonomi och kvalitet

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

## Establishment

The course syllabus is valid from spring term 2020.

## Grading scale

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

## Education cycle

First cycle

## Main field of study

Technology

## Specific prerequisites

## Language of instruction

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

## Intended learning outcomes

Upon completion of the course, students will:

- describe the economics, organisation, and environment of a construction company
- be able to calculate the effects of tied-up capital on construction operations
- be able to prepare capital investment appraisals using various methods (present value, annual repayment, etc.)
- be able to use several models for cost-benefit and income analyses and their application in construction operations, using calculation tools
- describe how quality assurance systems are used in construction management

## Course contents

- Product costing and capital budgeting
- Corporate forms
- Organisational principles
- Corporate cultures in the building trade
- Quality systems in construction management
- Life cycles analysis
- The role of quality assurance systems in achieving sustainable construction

## Examination

- PRO1 - Project, 2.0 credits, grading scale: P, F
- TEN1 - Examination, 5.5 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.

PRO1 is an individual assignments during the placement period. The student shall use available documents and carry out interviews with the persons in charge with the objective to find out how the work with calculations, purchasing, logistics and deliveries is organized and implemented. The written report shall describe how work on a construction site is monitored and followed up, and how the work to ensure a sustainable use of resources and time is carried out.

TEN1 is a written exam.

## 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.