KH1407 Practical Training for the Degree Programme in Chemical Engineering 7.5 credits

Praktikkurs för högskoleingenjörer i kemiteknik

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 KH1407 valid from Spring 2019

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Basic competences and special qualifications equivalent to: Physics 2, Chemistry 1 and Mathematics 3c. In each subject, the grade E is required.

For admission to the practical training course, the course KH1150 Information Technology and Engineering Methodology 9.0 credits within the Degree Programme in Chemical Engineering must be completed.

Language of instruction

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

Intended learning outcomes

The overall objective of the course is to provide the student with an insight into and understanding of future tasks and how they relate to their own education. Students will develop their skills in a real working environment, anchor new skills and gain experience of how they are applied in working life. The student should, within a given framework, independently account for and reflect on how the employer works with issues related to a workplace / company or authority, such as work environment, ethical issues, sustainable development, security and projects.

After passing the course, the student should be able to

- account for a chosen issue that is relevant to the internship and the education.
- demonstrate the ability to acquire knowledge from a workplace-related internship.
- reflect on the practical experience in relation to the education.
- demonstrate the ability to identify different areas of work relevant to the education and demonstrate the ability to evaluate their own need for certain skills.
- compile and present their question and study verbally and perform a critical reflection.

Course contents

The practical training is a workplace-based course where students at the degree programme in Chemical Engineering have at least 5 weeks of internship at a company or agency. Part-time work that has been accomplished in addition to the studies can be approved as an internship but must correspond to a five-week full-time internship ie. a total of 200 hours to be approved.

The course consists of three parts, an introductory part that results in an approved work plan, the workplace-based part - the internship during which the student reflects on his or her experiences in a logbook and a final part in which the student reports the study at an oral presentation.

The course includes the student's responsibility to make contact and arrange an appropriate employer (such as a company, municipality, other authority, manufacturing industry, etc.) in good time. The student shall present a proposal for a suitable study object. The employer must accept the proposal and then it must also be approved by the examiner. The chosen task should be relevant to the education. The object can be studied by studying different

documents and interviewing various executives in the workplace. The task studied at the employer may vary depending on the trade, the size of the employer and more.

The course works as a regular course but is scheduled to be completed during the summer. The student participates in the work at the workplace and simultaneously conducts the study as determined in a work plan drawn up at the start of the course.

Disposition

Contact the examiner if you wish to follow the course. Submit a work plan with a proposal for a study object that the employer considers appropriate.

Course literature

Literature that is relevant to the current tasks and information or documents from the workplace.

Examination

- PRA1 - Practical training, 6.0 credits, grading scale: P, F
- PRO1 - Project presentation, 1.5 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.

The course is examined through a logbook and an oral presentation. The logbook shall be updated at least once a week during the internship. In the logbook, the student shall reflect on the practical experience that the chosen study object at the workplace gives and put it in relation to the education. The work shall also be presented orally at a seminar after the end of the internship.

Other requirements for final grade

The two course parts PRA1 and PRO1 must be approved.

PRA1 6 credits: Approved introductory part ie. work plan and completed logbook

PRO1 1.5 credits: Approved presentation of the internship assignment at an oral presentation

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.