

## Quality Assurance, Healthcare and Environmental Protection in the Chemical Industry (C001125)

Course size (nominal values; actual values may depend on programme)  
Credits 5.0 Study time 135 h Contact hrs 40.0 h

### Course offerings and teaching methods in academic year 2018-2019

A (semester 1)	Dutch	lecture	27.5 h
		seminar: coached	2.5 h
		exercises	
		excursion	10.0 h

### Lecturers in academic year 2018-2019

Van Hecke, Kristof	WE06	lecturer-in-charge
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### Offered in the following programmes in 2018-2019

<a href="#">Bachelor of Science in Chemistry</a>	crdts	offering
	5	A

### Teaching languages

Dutch

### Keywords

Quality assurance, safety, healthcare, environmental protection, company visit

### Position of the course

To provide a general insight in the quality, safety and environmental management of chemical companies in a broader social context.

### Contents

This course is a general introduction to the quality, safety and environmental management concepts that are applied in modern chemical companies. A number of items is discussed in a broader social and economical context. Focus is on the acquaintance with a number of typical concepts, international standards and generally accepted methods. Amongst others, modern quality management, the quality standard ISO-9001, on-line analytics, control charts, health care management, risks of chemicals, transport of chemicals, technical safety, personal safety, air and water pollutants, biological water treatment and other techniques for decontamination of air and water, waste treatment, sustainable development and rational energy consumption are dealt with. Also foreseen is a visit to one or more major chemical companies.

### Initial competences

Credits for the course units "Chemistry I: Structure of Matter" and "Chemistry II: Changes in Matter" is recommended .

### Final competences

- 1 General knowledge and insight in the quality, safety and environmental management of research laboratories and chemical plants.
- 2 To get the discussion going with respect to the social and technical aspects of an environmental problem.

### Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

### Conditions for exam contract

This course unit cannot be taken via an exam contract

## Teaching methods

Excursion, lecture, seminar: coached exercises

## Learning materials and price

Syllabus in Dutch

## References

## Course content-related study coaching

Individual education by professor by appointment

## Evaluation methods

end-of-term evaluation and continuous assessment

## Examination methods in case of periodic evaluation during the first examination period

Oral examination

## Examination methods in case of periodic evaluation during the second examination period

Oral examination

## Examination methods in case of permanent evaluation

Participation

## Possibilities of retake in case of permanent evaluation

examination during the second examination period is not possible

## Calculation of the examination mark

19/20 periodic evaluation (oral examination)

1/20 permanent evaluation (excursion, participation)

Students who are absent without any well-justified reason or who do not participate in all evaluation methods (excursion, ) of the continuous assessment, get a non-deliberable examination mark.