



## Qualification descriptor for Higher Education Diploma with specialisation in Mining and Geotechnical Industry

*Högskoleexamen med inriktning mot berg- och anläggningsindustri*

Degree regulations of 2007

First cycle

### Established

Qualification descriptor approved on 2012-04-03 by Rektor Luleå tekniska universitet.

### Examination Objectives

#### Higher Education Act

English information is not available

#### Higher Education Ordinance

Annex 2

##### Knowledge and understanding

For a Higher education diploma the student shall have:

- \* demonstrated knowledge and understanding in the principal area (main field of study) of the study programme, including awareness of the disciplinary foundation of the field and knowledge of some applicable methodologies in the field.

##### Competence and skills

For a Higher education diploma the student shall have:

- \* demonstrated the ability to search for, gather and critically interpret the relevant information in order to formulate answers to well defined issues in the main field of study
- \* demonstrated the ability to present and discuss his or her knowledge with different audiences, and
- \* demonstrated the skills required to work autonomously with specific tasks in the main field of study.

##### Judgement and approach

For a Higher education diploma the student shall have:

- \* demonstrated knowledge about and be equipped to deal with ethical issues in the main field of study

#### Higher Education Ordinance

Annex 2

##### Knowledge and understanding

For a University Diploma students must

- demonstrate knowledge and understanding of their main field of study, including an awareness of the scientific basis of the field and knowledge of some applicable methods in the field.

##### Skills and abilities

For a University Diploma students must

- demonstrate an ability to seek, gather and critically interpret relevant information so as to formulate answers to well-defined questions in their main field of study;
- demonstrate an ability to present their knowledge and discuss it with different groups; and
- demonstrate the skills required to work independently with certain tasks in the field that the education concerns.

##### Judgement and approach

For a University Diploma students must

- demonstrate knowledge of and be capable of dealing with ethical issues in their main field of study.

## Detailed objectives for this degree

Upon completion of training, the student will be able to:

- demonstrate basic knowledge of composition and mechanical characteristics of minerals, rocks and rock mass
- apply basic extraction, processing and production processes in mining, quarrying and construction industry
- demonstrate knowledge of production processes impact on the external and internal environment
- demonstrate ability to participate in the Steering Group to develop production and technological processes
- demonstrate knowledge of the links between technology and human being in order to be able to describe the solutions that take into account both the customer's and the needs of the outside world.

### Credits

The programme requires 120 credits.

*The credits stated indicate the total for all courses leading to the degree. All courses are to have been completed and passed.*

### Special requirements

#### Higher Education Ordinance and Luleå University of Technology

Independent project (degree project)

A requirement for the award of a Higher education diploma is completion by the student of an independent project (degree project) of minimum 7.5 credits in the main field of study. (The Higher Education Ordinance, Annex 2 Qualifications ordinance)

The student shall have completed an independent degree project equal to a minimum of 7.5 credits within the framework of the course requirements. All courses included in degrees the equivalent of 120 credits are at first cycle level. (Riktlinjer för Bolognaanpassning (Guidelines for Bologna adaptation), LTU Dnr 783-06)

#### Higher Education Ordinance and Luleå University of Technology

Independent project (diploma project)

For a University Diploma students must have completed an independent project (diploma project) in their main field of study, within the framework of the course requirements. (The Higher Education Ordinance, Annex 2 Qualifications ordinance)

The student shall have completed an independent degree project equal to a minimum of 7.5 credits within the framework of the course requirements. All courses included in degrees the equivalent of 120 credits are at first cycle level. (Riktlinjer för Bolognaanpassning (Guidelines for Bologna adaptation), LTU Dnr 783-06)

*All course requirements for this degree are stated in the official syllabus.*

### Degree certificate

*A degree certificate will be issued upon application to students who fulfil the requirements for a degree.*

### Course requirements for this degree

Syllabus - [Higher Education Diploma Programme in Mining and Geotechnical Industry](#) (*Utbildningsplan - Bergsskoletekniker - berg- och anläggningsindustri*)