

Introduction to Mineral Production

Short Course

November 30th – December 1st 2017

At EIT RawMaterials GmbH , Europa Center, Tauentzienstr. 11, 10789 Berlin, Germany

COURSE SCOPE

The course aims at providing a common understanding of mineral production under a holistic value chain perspective and by considering the different periods of time of a mine's life cycle. The course gives an introduction to process technology and by conveying general awareness of existing technical constraints with regard to both material and process. The level of detail has been adapted to the needs of a non-technical target audience.

LEARNING OUTCOMES

After completion of the course, participants should be able to:

- Describe different mineral resources (ore types, minerals)
- Explain the different steps in developing a mine project
- Describe the major unit operations that are used within ore dressing and mineral production
- Discuss the environmental, social and economic dimensions of sustainable mineral and metal production

The course is developed within the LAYTERM project (www.layterm.eu), which is a Europe-wide wider society learning initiative funded through the European Institute of Innovation and Technology (EIT Raw Materials)

TARGET AUDIENCE

The course is targeted towards an audience with interest in, but without prior background in technical fields related to mineral raw material extraction or production. This can include policy makers, governmental or NGO employees, representatives from companies not directly involved in raw material production, and civil society. The course is designed for anyone interested in the field, either in the professional or personal context.

REGISTRATION

Registration or inquiries by sending an e-mail to Prof. Jan Rosenkranz, jan.rosenkranz@ltu.se by November 17th. With your registration, please also inform of any dietary constraints. A detailed course schedule and the venue of the course will be provided at the time of registration. The course is free of charge.

MODES OF EDUCATION

The course includes lectures, small exercises, discussions and workshops. Course material will be distributed during the lectures. The course is held in English.

PRACTICALITIES

The number of participants is limited to 16. Participants are kindly asked to do travel and accommodation arrangements at their own expense. Light refreshments will be provided. Please inquire if you will need recommendations for accommodation.

The course is arranged in collaboration between the following educational institutions:



COURSE SCHEDULE

Time	1. Day (November 30 th)	2. Day (December 1 st)
10:00 – 12:00	PART 1 - INTRODUCTION Welcome and introduction Europe as a mining region	WORKSHOP Crushing simulator
	PART 2 – GEOLOGY AND EXPLORATION Geology and mineralogy Exercise: Minerals Exploration and mining project development	PART 4 – ENVIRONMENT AND SOCIETY Environmental and social impacts of mining Health and safety aspects Mine closure
	Lunch break	Lunch break
13:00 – 14:30	PART 3 – MINERAL PROCESSING Mineral processing	PART 5 – RESOURCE MANAGEMENT Resource management Mining and recycling
	Break	Break
15:45 – 16:30	WORKSHOP The mine of the future	WORKSHOP Stakeholder involvement



CHALMERS

