



Managing Resources for a Sustainable Future

Seminar on Critical Raw Materials

June 9 and 10, 2022, TU Delft

A two-day course for current and future professionals interested in critical raw materials (CRMs) and their management.

- Deepen your knowledge in critical raw materials
- Apply tools to your own sector
- Learn from industry examples
- Update yourself on policy developments
- Discuss with the experts from the MOOC, industry representatives, policy-makers, and colleagues interested in the field

Apply here (spaces are limited): <https://www.suscritmat.eu/mooc-summer-seminar/>

Course contents will build on the free online course:

<https://www.edx.org/course/critical-raw-materials-managing-resources-for-a-sustainable-future>

Programme

Wednesday, June 8

From 6:30pm: Get-together in old town Delft; board game “In the Loop” and “Risk and Race” with finger food

Thursday, June 9:

Morning: Foundations – Supply chains and CRM management

The material basis of the clean transition, drivers for resource management, and introduction to a model to assess raw materials risks

- Introduction of team and participants
- Critical raw materials for the energy transition (British Geological Survey)
- Drivers for resource management (David Peck, TU Delft)
- A model for raw material risk assessment (Alessandra Hool, ESM Foundation)

Afternoon: Tools for practical application

Material Flow Analysis, applying Life Cycle Assessment to a CRM case, and the option to learn about available software on process modelling and materials risks

- Material Flow Analysis (Ester van der Voet, Leiden University)
- Applied LCA (Stefano Cucuracchi, Leiden University)
- Process-model based LCA (Antti Roine, Outotec Oyi) / Data and software packages for industry to report on material-related risks (Ansys, Inc.)

Friday, June 10

Morning: Supply chain resilience and company examples

- Supply chain resilience (René Kleijn, Leiden University)
- Company experience with supply chain risk monitoring; presentation of examples for circular CRM management; identification and discussion of success factors

Afternoon: Policy developments and current geopolitics

- Due Diligence Guidance for Responsible Supply Chains (Luca Maiotti, OECD)
- Policy-makers and public bodies introduce and discuss current and upcoming policies, standards and due diligence approaches, guidelines, and collaborations

- Discussion of current geopolitical events and implications on CRM markets, availability, and the energy y transition