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Master Class in Circular Supply Chain

ONLINE
COURSE

31 January, 1-2 February
7, 8, 9 February 2022

ABSTRACT

The transition towards a circular economy is a key element of the EU Green Deal as it can contribute to reduce primary resource extraction as well as environmental impacts along products' life cycles. Assessing the risk of supply chain disruptions for raw materials as input into production processes is now crucial for companies, countries, and economic blocks like the EU.

This course will provide insights on how to orchestrate socio-technical changes towards circular economy and enhance new value creation. At the end of the course the attendees will be able to understand the concept of business model with implications for business strategy and competitiveness and will be introduced to the analysis of strategic and critical raw materials that may affect governments and companies, and suggest strategies for mitigating or exploiting the opportunity of adopting a circular approach to mitigate sourcing issues.

The course has been co-developed by EIT Raw Materials and ADACI.

OBJECTIVES

- Provide insights on how to orchestrate socio-technical changes towards circular economy and enhance new value creation.
- Understand the concept of business model and its implications for business strategy and competitive advantage
- Understand the circular economy paradigm and its consequences for strategic thinking, business modelling and supply chain management
- Know the principles and the methodologies for Industrial symbiosis implementation
- Know the four phases of the Life Cycle Assessment (LCA) method and understand advantages and potential limitations to waste recycling
- Know the most recent advances in the identification of critical and strategic raw materials and the limitations of critical raw material indicators
- Make an analysis of critical raw materials that may affect governments with strategies for mitigating

TARGET LEARNERS

- Professionals and entrepreneurs interested in circular economy business opportunities
- Executives and function managers in areas as management, research and development, production, logistics, sales and marketing, finance
- Supply chain managers, sustainability managers, or similar
- Officials in authorities and governments

AGENDA

MODULE 1

Alberto Claudio Tremolada, ADACI, IT

- Introduction to Circular Supply Chain Economy

MODULE 2 (in English)

Maria Åkerman, Maria Antikainen and Minna Halonen, VTT, FI

- Socio-technical change towards circular economy
- New value creation in circular economy ecosystems
- Foresight methods for transformation
- Examples of existing circular economy transformation

MODULE 3

Alessandro Rossi, University of Trento, IT

- Basic knowledge on Circular Economy business modelling
- Widen the Circular Economy adoption and maximise its benefits

MODULE 4

Marco La Monica, Antonella Luciano & Silvio Viglia, IT

- Eco-innovation and industrial ecology
- Industrial symbiosis and resource audit
- Life Cycle Assessment (LCA): introduction, methods and assessment of the environmental burdens and benefits of waste recycling

MODULE 5 (in English)

Arjan de Koning, University of Leiden, NL

- Assess criticality of raw materials
- Calculate simple criticality indicators
- Mitigate critical raw material supply chain disruptions
- Increase self-sufficiency by means of Circular Economy strategies

MODULE 6

Panel of experts from ADACI, IT

- Closing roundtable