Specialized training session by CTT

E530-101 – Textiles and Sustainable Development

Who is this course for?

This course is designed for professionals seeking to understand the technical and regulatory challenges of sustainable development in textile-based materials. It provides basic knowledge to start the integration of sustainability solutions within specifications and product development

Prerequisite

Knowledge of textile terminology, including fibers, yarns, knitted fabrics, woven fabrics, and non-wovens, as well as an understanding of the material production chain.

Content

- Introduction to Definitions: Sustainable Development (SD) (basic principles); Circular Economy (concept and differences from SD); Composting and Biodegradability; Other relevant terms.
- Life Cycle of Textile Materials: Stages of the life cycle; Natural vs. synthetic products; Environmental impact at each stage (energy consumption, emissions, waste management).
- Technological Innovations and Solutions (examples): Biomaterials and alternative materials (mycelium, plant-based leather); Innovative processes (photopolymerization, supercritical CO2, wet spinning).
- Regulatory updates: Current regulations (standards for sustainable textiles); Recent changes (evolutions and impact).

Learning Objectives

- Gain a Comprehensive Understanding: Obtain a generic understanding of the issues related to textile-based materials and sustainable development
- Understand: Comprehend these issues in their globality and grasp their interconnections.
- Explore : Identify relevant technological innovations for textile materials and understand recent updates to applicable regulations.

Your Trainer

Dr Ahmad Ibrahim
Chairholder of the Ecotextile Research Chair

An expert in the physico-chemistry of materials. He is dedicated to reducing the environmental impact of textile products. With a PhD in Physical Chemistry, degrees in Formulation Chemistry, Biochemistry, Innovative Materials, and an MBA, he combines science and innovation to promote green chemistry and low-environmental-impact materials. His scientific expertise and academic experience make him an ideal instructor for this course

November 5, 2024 (in French) or November 6, 2024 (in English)
225$/individual + taxes (202,50$/individual for CTT members)

Duration : 2h + 30 minutes visit of the labs, Starting : 10h30, Ending : 14h,
(meals at your own expense, in the Cégep cafeteria). In-person only, at the Groupe CTT, 3000 avenue Boullé, Saint-Hyacinthe