

PU 205: Enabling Circular Economy for Plastics: Tools to Help Close the Loop

Course Description:

This course explores the frameworks and tools driving the transition toward a circular economy for plastics. Participants will gain an understanding of circular economy principles, the mass balance approach as a pathway to circular feedstocks, and how chemical recycling and biomass balance strategies are being applied to close the loop for plastics. The course also introduces life cycle assessment (LCA) as a method for evaluating environmental impacts across the value chain.

The Circular Economy

- Introduction

The Mass Balance Approach

- Enabling the Transformation to Circular Feedstocks

Recycling Chemical and Biomass Balance

- Closing the Loop for Plastics

Life Cycle Assessment

- Evaluation Impacts