

Green Polyolefins and Sustainable Polymers Training Course

18 – 22 April 2027
Tashkent

AGILE LEADERS
Training Center

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Ref: 2202_261153 **Date:** 18 – 22 April 2027 **Location:** Tashkent **Fees:** 8000 Euro

Overview

Green Polyolefins and Sustainable Polymers Training Course is a one-week professional course for polymer, petrochemical, materials, manufacturing, sustainability, quality, and supply-chain professionals, who leave with a Sustainable Polymer Transition Roadmap. The course connects circular polymer feedstocks, design for recycling, mechanical and chemical recycling, mass balance chain of custody, lifecycle evidence, and recycled content claims with material and scale-up decisions. Agile Leaders Training Center develops green polyolefins and sustainable polymers practice.

Who Should Attend

- Teams responsible for polymer and petrochemical product portfolios
- Functions responsible for materials selection and product development
- People responsible for recycling, circularity, and lifecycle evidence
- Teams responsible for quality, procurement, and supplier assurance
- Functions responsible for manufacturing scale-up and sustainability claims

The course assumes participants can work with polymer, production, quality, supplier, or environmental evidence; it leaves out general polymer chemistry, composite-material engineering, generic circular-economy introductions, and olefins commercial analysis.

Departments and Industries

The course supports polymer transition decisions across petrochemicals, packaging, consumer goods, automotive, manufacturing, recycling, and materials supply.

- Polymer production and petrochemical functions
- Materials, product development, and packaging teams
- Quality, procurement, and supply-chain functions
- Sustainability, lifecycle, and environmental teams
- Recycling, manufacturing, and conversion organizations

Learning Objectives

By the end of this course, participants will be able to:

- Analyze polyolefin value chains and lifecycle hotspots.
- Compare recycled, renewable, and mass-balance feedstocks.
- Apply design-for-recycling and performance criteria.
- Evaluate mechanical and chemical recycling interfaces.
- Build traceability, claims, and quality controls.
- Prioritize a sustainable polymer transition roadmap.

Course Agenda

Day 1: Map Polymer Lifecycle Decisions

- Polyolefin Value-Chain Boundary Map
- Polymer Lifecycle Hotspot Assessment
- Material Flow and Loss Diagram
- Stakeholder and Decision-Owner Matrix
- Transition Objective and Evidence Charter

Day 2: Compare Circular Feedstocks

- Recycled Feedstock Quality Profile
- Bio-Based and Renewable Feedstock Screen
- Circular Feedstock Pathway Comparison
- ISO 22095-2 Mass Balance Boundary Model
- Feedstock Carbon and Lifecycle Evidence Register

Day 3: Design for Recycling

- Polymer and Blend Recyclability Matrix
- Additive, Color, and Contamination Trade-Off Tool
- Material Performance Requirement Sheet
- Design-for-Recycling Compatibility Checklist
- Product and Packaging Redesign Decision Canvas

Day 4: Control Recycling and Claims

- Mechanical Recycling Interface Map
- Chemical Recycling Pathway Screen
- Chain-of-Custody and Conversion-Factor Log
- Recycled Content Claim Control Matrix
- Quality, Procurement, and Scale-Up Gate

Day 5: Practice Polymer Transition Decisions

- Exercise: Diagnose a Polymer Lifecycle Baseline
- Exercise: Compare Circular Feedstock Pathways
- Exercise: Test Recyclability and Performance Trade-Offs
- Exercise: Verify Traceability and Claims Evidence
- Capstone Exercise: Complete the Sustainable Polymer Transition Roadmap

Practical Exercises

The course uses suggested activities based on petrochemicals, packaging, consumer goods, automotive components, and recycling operations.

- Suggested activity: map a polyolefin lifecycle and identify material, carbon, and recovery hotspots.
- Suggested activity: compare recycled, renewable, and mass-balance feedstock evidence.
- Suggested activity: test design, additives, performance, and recycling compatibility.
- Suggested activity: combine traceability, claims, quality, procurement, and scale-up decisions in a roadmap.

FAQs

Who suits green polyolefins and sustainable polymers training?

Green polyolefins training suits professionals who evaluate polymer materials, feedstocks, products, recycling, quality, suppliers, lifecycle evidence, or sustainability claims and who can work with technical or operational records.

How does sustainable polymers training differ from general polymer chemistry training?

Sustainable polymers training focuses on lifecycle hotspots, circular feedstocks, recyclability, traceability, claims, quality, and transition decisions, while general polymer chemistry training focuses on molecular structure, synthesis, and properties.

How does mass balance support sustainable polymer claims?

Mass balance supports claims by defining system boundaries, material inputs, conversion factors, allocation methods, records, controls, and transparent communication for attributed characteristics.

How should mechanical and chemical recycling pathways be compared?

Recycling pathways should be compared using feedstock suitability, contamination tolerance, output quality, material performance, infrastructure, energy and carbon evidence, traceability, cost, and intended application.

What evidence supports a sustainable polymer transition?

A sustainable polymer transition uses material-flow data, lifecycle and carbon evidence, recyclability tests, feedstock records, chain-of-custody controls, quality results, supplier evidence, claims review, and scale-up gates.

Conclusion

Participants take back a Sustainable Polymer Transition Roadmap connecting lifecycle hotspots, feedstocks, design choices, recycling pathways, traceability, claims, quality, procurement, and scale-up. It makes material assumptions, evidence gaps, trade-offs, and ownership traceable. The roadmap supports coordinated decisions across polymer production, product development, manufacturing, sustainability, quality, and supply chains.