

An Introduction to Plastics Recycling

Module 1: (2 hours & 30 minutes)

20 minutes	Welcome and introduction to the course
45 minutes	Waste – collection to processing <ul style="list-style-type: none">• Collection infrastructures• Post industrial waste• Deposit vs kerbside collection• Difference between recycling input routes
10 minutes	Break
45 minutes	Production routes to new use <ul style="list-style-type: none">• Flake• Pellet• Food grade
30 minutes	Q&A and summary

Module 2: (2 hours & 20 minutes)

45 minutes	Chemical recycling <ul style="list-style-type: none">• Types of chemical recycling• Status of development• How disruptive will chemical recycling be?
15 minutes	Q&A
10 minutes	Break
10 minutes	Interactive poll <p>A short survey giving delegates an opportunity to share their industry knowledge and opinion through series of poll questions. Answers and insights will be discussed in the next session</p>
45 minutes	Analysing market dynamics across polymers <ul style="list-style-type: none">• Overview of collection and growth rates in Europe• Impact on virgin markets from recyclates• Assess the impact of uncontrollable factors on recycled materials
15 minutes	Q&A

Module 3: (2 hours)

- 15 minutes Clarifying market terminology**
- Overview of the key terms used in the recycled polymer market
 - Pricing jargon—what is contract versus spot pricing?
 - Who are the key market players?
- 15 minutes Interactive session: What's that word?**
Delegates share terminologies they often come across in the world of plastics recycling. This simple exercise allows the participants to draw commonalities and discover terms that they may not be familiar with
- 10 minutes Break**
- 1 hour Breaking down pricing and sales processes**
- Review the main price drivers for the recycled market
 - How do markets function and how are prices set?
 - Discuss the sales process for food grade versus flake versus bale
- An Introduction to Plastics Recycling
- 15 minutes Q&A**
- 5 minutes Conclusion**

Module 4: (2 hours & 20 minutes)

- 45 minutes Future challenges for recycling technologies**
- Legislative framework
 - Addressing contamination
 - Disruptive technologies – bio-based feedstocks, light weighting
 - Influence of brand and consumer pressure
 - What is the current state of recycling across European markets?
- 15 minutes Q&A**
- 10 minutes Break**
- 45 minutes What are the end markets for recycling polymers?**
- How end markets will dictate the evolution of recyclate markets
 - Which end markets are set to decline
 - What will be the impact of the refocus on design for recycle?
- 15 minutes Q&A**
- 10 minutes Summary and course conclusion**