An Introduction to Plastics Recycling

Module 1: (3 hours & 15 minutes)

20 minutes Welcome and introduction to the course

45 minutes Waste – collection to processing

Collection infrastructures

Post industrial waste

• Deposit vs kerbside collection

• Difference between recycling input routes

10 minutes Break

45 minutes Production routes to new use

FlakePellet

Food grade

45 minutes Analysing market dynamics across polymers

Overview of collection and growth rates in Europe

• Impact on virgin markets from recyclates

Assess the impact of uncontrollable factors on recycled materials

30 minutes Q&A and summary

Module 2: (3 hours & 15 minutes)

1 hour Breaking down pricing and sales processes

Review the main price drivers for the recycled marketHow do markets function and how are prices set?

• Discuss the sales process for food grade versus flake versus bale

15 minutes Q&A

15 minutes Break

30 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?

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

15 minutes Summary



Module 3: (2 hours & 20 minutes)

45 minutes Chemical recycling

• Types of chemical recycling

Status of development

• How disruptive will chemical recycling be?

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