



MANUFACTURING AND PRODUCTION

Plastics Recycling and Reprocessing Operations

3 day course

Classroom, online or in-house

Course overview

Recycled plastic is bought on a specification and produced from a feedstock nobody controls, which makes sorting and contamination management the whole business rather than a preliminary to it. This course works from the input. Delegates work through polymer identification and the separation of streams that look identical and behave differently once melted. Collection, baling and the material recovery facility are covered. Sorting technology follows across manual, density, near infrared and electrostatic methods. Size reduction, washing and the removal of labels, adhesives and residues are addressed. Drying and moisture control are covered, since moisture degrades polyester during extrusion. Pelletising, filtration and degassing follow. Property loss through repeated processing is treated honestly, including chain scission and additive depletion. Compounding and property restoration are addressed. Food contact and regulatory requirements for recycled material are covered. The course closes on specification, on customer qualification and on the economics that decide viability.

What you will learn

- Identify polymers and separate streams that behave differently
- Operate collection, baling and recovery facility flows
- Apply manual, density, near infrared and electrostatic sorting
- Wash and remove labels, adhesives and residues
- Control moisture before extrusion
- Pelletise with filtration and degassing, and restore properties by compounding
- Meet food contact requirements and judge the economics of a stream

Who should attend

- Recycling plant operators and supervisors
- Process engineers in reprocessing operations
- Quality staff specifying recycled material
- Waste management and collection staff
- Buyers sourcing recycled polymer

Course outline

- 01 A specification from an uncontrolled feedstock
- 02 Polymer identification and stream separation
- 03 Collection, baling and recovery facilities
- 04 Sorting technologies
- 05 Size reduction, washing and residue removal
- 06 Drying and moisture control
- 07 Pelletising, filtration and degassing
- 08 Property loss, compounding, food contact and economics

Upcoming dates



Dates	Venue	Format	Fee per delegate
4 to 6 November 2026	Windhoek, Namibia	Classroom	R14,950
16 to 18 November 2026	Online	Online	R6,500
23 to 25 November 2026	Pretoria, South Africa	Classroom	R14,950
30 December 2026 to 1 January 2027	Kampala, Uganda	Classroom	USD 995

Fees and how to register

This 3 day course is **R6,500** per delegate online, **R14,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 995** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriScience.co.za, or WhatsApp us on **+27 63 479 1136**.

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