

**MANUFACTURING AND PRODUCTION**

Woven Polypropylene Sacks and Raffia Production

3 day course

Classroom, online or in-house

Course overview

Woven sacks carry fertiliser, grain, cement and sugar across the region, and they fail in exactly two ways: the fabric tears or the seam opens, both usually traced to a tape produced outside specification. This course starts at the tape. Delegates work through resin selection, filler and additive use, and the ultraviolet stabilisation that decides how long a sack survives outdoors. Tape extrusion is covered in detail: cast film, slitting, hot stretching and annealing, with the draw ratio that sets tenacity. Tape denier, width and strength testing follow. Winding and bobbin quality are addressed, since a poor bobbin stops a loom. Circular loom operation is covered, including warp and weft tension and the fabric weight that specification demands. Lamination and printing follow. Conversion to sacks is addressed: cutting, stitching, valve construction and seam strength. Testing is covered across fabric weight, tensile, drop and stacking. The course closes on scrap, on regrind limits and on cost per sack.

What you will learn

- Select resin, filler and ultraviolet stabilisation for service life
- Extrude tape and set draw ratio to achieve required tenacity
- Test tape denier, width and strength
- Wind bobbins that will run on a loom
- Operate circular looms at correct tension and fabric weight
- Laminate, print and convert to stitched or valve sacks
- Test finished sacks and control regrind and cost per sack

Who should attend

- Woven sack plant operators and supervisors
- Extrusion and loom technicians
- Quality staff testing tape and fabric
- Production managers in raffia manufacture
- Buyers specifying bulk packaging sacks

Course outline

- 01 Two failure modes, one cause
- 02 Resin, filler and ultraviolet stabilisation
- 03 Tape extrusion, slitting and stretching
- 04 Draw ratio and tenacity
- 05 Tape testing and bobbin winding
- 06 Circular loom operation and tension
- 07 Lamination, printing and conversion
- 08 Seam strength, sack testing, regrind and cost

Upcoming dates



Dates	Venue	Format	Fee per delegate
2 to 4 December 2026	Johannesburg, South Africa	Classroom	R14,950
21 to 23 December 2026	Pretoria, South Africa	Classroom	R14,950
18 to 20 January 2027	Windhoek, Namibia	Classroom	R14,950
3 to 5 March 2027	Online	Online	R6,500

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@afiscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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