



MANUFACTURING AND PRODUCTION

Weaving and Knitting Production Technology

5 day course

Classroom, online or in-house

Course overview

Fabric formation is where yarn quality, machine condition and operator attention meet, and where a fault that took a second to create is cut out of a roll days later at full fabric cost. This course covers both routes to fabric. Delegates work through warp preparation, warping, sizing and the beam quality that determines how a loom will run. Loom mechanisms are covered across shedding, picking and beat up, with weft insertion by rapier, air jet and projectile compared. Weave structures and fabric specification follow. Knitting is addressed separately: circular and flat machines, stitch formation, and the fabric parameters knitters control. Fabric faults are worked through by appearance and traced to their cause, whether yarn, machine setting or handling. Machine efficiency, stoppage analysis and the arithmetic of loom utilisation are covered. Grey fabric inspection and point systems follow. The course closes on maintenance and on setting a machine for a new article.

What you will learn

- Prepare warps through warping and sizing to a runnable beam quality
- Explain shedding, picking and beat up on a loom
- Compare rapier, air jet and projectile weft insertion
- Specify weave structures and fabric parameters
- Operate circular and flat knitting and control stitch formation
- Diagnose fabric faults from appearance back to cause
- Analyse stoppages, run grey inspection and set a machine for a new article

Who should attend

- Weaving and knitting supervisors
- Textile production managers
- Quality control staff inspecting grey fabric
- Loom and knitting machine technicians
- Technical staff in fabric manufacturing

Course outline

- 01 A second to create, a roll to lose
- 02 Warping, sizing and beam quality
- 03 Loom mechanisms and timing
- 04 Weft insertion systems compared
- 05 Weave structures and fabric specification
- 06 Circular and flat knitting
- 07 Fabric faults and their causes
- 08 Efficiency, stoppages, inspection and machine setting

Upcoming dates



Dates	Venue	Format	Fee per delegate
12 to 16 October 2026	Lusaka, Zambia	Classroom	USD 1,325
8 to 12 February 2027	Durban, South Africa	Classroom	R19,950
22 to 26 February 2027	Harare, Zimbabwe	Classroom	USD 1,325
1 to 5 March 2027	Online	Online	R8,500

Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** 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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