



MANUFACTURING AND PRODUCTION

Furniture Manufacturing and Wood Machining

3 day course

Classroom, online or in-house

Course overview

Furniture is judged by touch and by whether a drawer still runs after a year, which makes joint accuracy and finish the whole product, and both are set by machine setup rather than by craftsmanship on the bench. This course covers the setup. Delegates work through material selection across solid timber, panel products and veneer, with the movement each allows. Machining follows through ripping, cross cutting, planing, moulding and sanding, with cutter geometry, feed speed and the tear out and burn that indicate a setting is wrong. Panel processing is covered including panel saws, edge banding and drilling for fittings. Joinery is addressed across dowel, biscuit, mortice and tenon and knock down fittings, with the strength and tolerance each offers. Assembly, clamping and squareness follow. Finishing is covered through sanding grades, sealing, spraying and curing, since finish defects are the commonest rejection. Upholstery is addressed at an overview level. The course closes on cutting lists, yield and batch production efficiency.

What you will learn

- Select solid timber, panel and veneer materials for the movement expected
- Set cutter geometry and feed speed to avoid tear out and burn
- Process panels including edge banding and fitting drilling
- Choose joinery methods for strength and tolerance
- Assemble square and clamp correctly
- Sand, seal, spray and cure to a defect free finish
- Prepare cutting lists and improve yield in batch production

Who should attend

- Furniture production supervisors and machinists
- Wood machining operators
- Quality staff in furniture manufacture
- Designers specifying furniture for production
- Owners of joinery and furniture workshops

Course outline

- 01 Judged by touch and by a drawer after a year
- 02 Solid timber, panel products and veneer
- 03 Ripping, planing, moulding and sanding
- 04 Cutter geometry, feed speed, tear out and burn
- 05 Panel saws, edge banding and fitting drilling
- 06 Dowel, mortice, tenon and knock down joints
- 07 Assembly, clamping and squareness
- 08 Finishing, curing, cutting lists and yield

Upcoming dates



Dates	Venue	Format	Fee per delegate
5 to 7 October 2026	Online	Online	R6,500
9 to 11 December 2026	Mbabane, Eswatini	Classroom	R14,950
16 to 18 December 2026	Durban, South Africa	Classroom	R14,950
21 to 23 December 2026	Windhoek, Namibia	Classroom	R14,950

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**.

AfriScience Group | +27 61 536 6531 | info@afriScience.co.za | Pretoria, Gauteng, South Africa