

**MANUFACTURING AND PRODUCTION**

Blow Moulding and Container Manufacturing

3 day course

Classroom, online or in-house

Course overview

A blown container has to hold its contents, survive a drop test and stack in a warehouse, all from a wall that the process distributes rather than the designer specifies. This course covers controlling that distribution. Delegates work through extrusion blow moulding and injection stretch blow moulding, and the products and volumes each suits. Parison programming is treated in detail, since it is the principal tool for putting material where the container needs it. Preform design and reheat profiles are covered for stretch blow. Mould cooling and cycle time follow. Container performance testing is addressed: top load, drop, burst and leak, with the failure each reveals. Wall thickness measurement and weight control are covered, since resin is the dominant cost. Neck finish, closure compatibility and sealing follow. Defects are diagnosed, including pearlescence, uneven distribution and pinch off failures. The course closes on lightweighting without losing performance.

What you will learn

- Choose between extrusion and injection stretch blow moulding
- Programme a parison to distribute material where it is needed
- Design preforms and set reheat profiles for stretch blow
- Control mould cooling and cycle time
- Run top load, drop, burst and leak testing and interpret failures
- Measure wall thickness and control container weight
- Ensure neck finish and closure compatibility, and lightweight safely

Who should attend

- Blow moulding operators and setters
- Process engineers in container manufacture
- Packaging technologists specifying containers
- Quality staff testing container performance
- Production managers at bottle and container plants

Course outline

- 01 A wall the process distributes
- 02 Extrusion against stretch blow moulding
- 03 Parison programming
- 04 Preform design and reheat profiles
- 05 Mould cooling and cycle time
- 06 Top load, drop, burst and leak testing
- 07 Wall thickness and weight control
- 08 Neck finish, closures, defects and lightweighting

Upcoming dates



Dates	Venue	Format	Fee per delegate
19 to 21 October 2026	Online	Online	R6,500
28 to 30 October 2026	Durban, South Africa	Classroom	R14,950
16 to 18 November 2026	Pretoria, South Africa	Classroom	R14,950
1 to 3 February 2027	Cape Town, South Africa	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**.

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