



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

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COURSE BROCHURE

Blood Component Handling for Transfusion

Health Sciences and Social Services / Curative Health

Unit Standard 257200 · NQF Level 3 · 13 Credits · 10 Days

COURSE OVERVIEW

This course equips healthcare professionals with the knowledge and skills to safely handle blood components for transfusion. It covers identification, storage, transport, and administration of blood products, ensuring compliance with national standards and patient safety.

Category	Health Sciences and Social Services
Subfield	Curative Health
Unit Standard	257200
Accreditation	SAQA Accredited · NQF Level 3 · 13 Credits
Duration	10 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply standard precautions and infection control measures when handling blood components.
- Identify and verify blood components according to patient identification protocols.
- Implement correct storage and transport procedures to maintain component integrity.
- Demonstrate the safe administration of blood components and monitor for adverse reactions.
- Analyze documentation and traceability requirements for transfusion processes.
- Evaluate emergency procedures for transfusion reactions and component wastage.

WHO SHOULD ATTEND

- This course is designed for nurses, medical technologists, phlebotomists, and other healthcare workers involved in the transfusion chain in hospitals, clinics, or blood banks.

COURSE OUTLINE

Day 1: Introduction to Blood Components and Transfusion Safety

- Overview of blood transfusion therapy.
- Blood components: red cells, platelets, plasma, cryoprecipitate.
- Indications for transfusion of each component.
- Risks of transfusion: infections, reactions, errors.
- Regulatory framework: SANBS, SAQA, HPCSA guidelines.
- Ethical considerations and patient consent.

Day 2: Blood Component Storage and Transport Requirements

- Storage temperatures: RBCs (2-6°C), platelets (20-24°C), plasma ($\leq -18^{\circ}\text{C}$).
- Refrigerators, freezers, and platelet agitators.
- Temperature monitoring devices and logs.
- Transport containers: cool boxes, dry ice, validation.
- Cold chain integrity and emergency procedures.
- Shelf life and discard criteria.

Day 3: Blood Component Receipt and Inspection

- Receiving process: check labels, temperature, integrity.
- Visual inspection: colour, clots, haemolysis, leaks.
- Bacterial contamination indicators.
- Acceptance criteria for each component.
- Rejection and return procedures.
- Documentation: receipt logs, discrepancy reports.

Day 4: Blood Group Compatibility and Crossmatching

- ABO blood group system: antigens and antibodies.
- Rh system: D antigen and significance.
- Crossmatching: major and minor crossmatch.
- Compatibility testing procedures.
- Emergency release of uncrossmatched blood.
- Haemolytic transfusion reactions.

Day 5: Pre-Transfusion Checks and Patient Identification

- Patient identification protocols.
- Blood component verification: label, expiry, compatibility.
- Pre-transfusion checklist: patient ID, component, consent.
- Bedside check procedure.
- Documentation: transfusion record, vital signs.
- Error prevention strategies.

Day 6: Administration of Blood Components

- IV access: gauge, site, patency.
- Blood administration sets: filters, Y-type.
- Rate of infusion for each component.
- Vital sign monitoring: baseline and during.
- Recognition of transfusion reactions.

- Management: stop transfusion, notify doctor.

Day 7: Documentation and Traceability

- Transfusion record: component ID, patient ID, start/stop time.
- Traceability from donor to recipient.
- Documentation of adverse events.
- Record retention policies.
- Audit trails and barcode systems.
- Legal implications of incomplete records.

Day 8: Adverse Events and Error Management

- Types of adverse events: acute, delayed, infectious.
- Haemolytic, febrile, allergic, bacterial reactions.
- Transfusion-associated circulatory overload (TACO).
- Transfusion-related acute lung injury (TRALI).
- Reporting to haemovigilance systems.
- Error management: near misses, corrective actions.

Day 9: Quality Assurance in Blood Transfusion

- Quality management system (QMS) in transfusion.
- Standard operating procedures (SOPs).
- Quality control: equipment, reagents, processes.
- Internal audits and external assessments.
- Non-conformance and corrective action.
- Continuous quality improvement (CQI).

Day 10: Case Studies and Practical Integration

- Case studies: incompatible transfusion, adverse reactions.
- Problem-solving: equipment failure, missing documentation.
- Practical integration: simulated transfusion process.
- Review of key concepts.
- Final assessment preparation.
- Course evaluation and feedback.

ASSESSMENT & CERTIFICATION

Delegates are assessed through exercises and a final test. A mark of **50% or above** earns an **AATICD Certificate of Completion**, issued digitally with a unique verification code. This course carries **13 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 26,300.00	R 26,300.00
1	In-House	R 34,200.00	R 34,200.00
1	On-Campus (Pretoria)	R 39,400.00	R 39,400.00

UPCOMING SESSIONS

Start	End	Method	Venue
21 Aug 2026	03 Sep 2026	On-Campus	Pretoria, South Africa
24 Aug 2026	04 Sep 2026	On-Campus	Durban, South Africa
25 Aug 2026	07 Sep 2026	On-Campus	Shenzhen, China
26 Aug 2026	08 Sep 2026	On-Campus	Harare, Zimbabwe
27 Aug 2026	09 Sep 2026	On-Campus	Bangkok, Thailand
28 Aug 2026	10 Sep 2026	On-Campus	Victoria Falls, Zimbabwe
28 Aug 2026	10 Sep 2026	On-Campus	Abu Dhabi, UAE
31 Aug 2026	11 Sep 2026	On-Campus	Shenzhen, China

Contact us if no suitable date is listed – on-demand sessions can be arranged for groups.

HOW TO GET A QUOTE OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard 257200) and click **Get A Quote / Apply**. Select your training method and number of delegates – your quotation is generated immediately and emailed to you with the course brochure attached.
2. **Apply by email:** send the course title, your preferred training method (Online, In-House or On-Campus Pretoria), the number of delegates and your preferred dates to apply@aaticd.co.za – our team will reply with a formal quotation.
3. **Apply by phone or WhatsApp:** call **+27 12 004 8389** or WhatsApp **+27 65 077 6310** and we will prepare your quotation and reserve your seats.
4. **Confirm your booking:** accept the quotation and settle the invoice. As soon as payment is confirmed your delegates are enrolled and receive their AATICD LMS login details by email, along with joining instructions for their chosen training method.

Group discounts apply automatically – the more delegates you enrol, the lower the price per delegate. No payment is required to request a quotation.

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