



Accredited Africa Training Institute for Capacity Development

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

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Medical Anatomy Physiology and Blood Transfusion Terminology

Health Sciences and Social Services / Curative Health

Unit Standard 252396 · NQF Level 4 · 12 Credits · 9 Days

COURSE OVERVIEW

This course equips learners with foundational knowledge of human anatomy, physiology, and medical terminology as applied to medical pathology and blood transfusion. It enables learners to understand the structure and function of the human body, interpret medical terms relevant to pathology and transfusion, and apply this knowledge in a clinical or laboratory setting. The course is designed to improve patient safety and accuracy in blood transfusion practices.

Category	Health Sciences and Social Services
Subfield	Curative Health
Unit Standard	252396
Accreditation	SAQA Accredited · NQF Level 4 · 12 Credits
Duration	9 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate knowledge of the anatomical structures and physiological systems of the human body relevant to pathology and blood transfusion.
- Apply correct medical terminology to describe pathological conditions and blood transfusion processes.
- Analyze the relationship between anatomical structures, physiological functions, and common pathologies.
- Evaluate the impact of pathological conditions on blood transfusion compatibility and patient management.
- Demonstrate understanding of the terminology used in blood grouping, cross-matching, and transfusion reactions.
- Apply knowledge of anatomy and physiology to interpret laboratory results and clinical documentation related to blood transfusion.

WHO SHOULD ATTEND

- This course is ideal for healthcare professionals, phlebotomists, medical laboratory technicians, nurses, and administrative staff working in blood transfusion services or pathology laboratories.
- It is also suitable for individuals seeking to enter the medical field and require a solid grounding in anatomy, physiology, and medical terminology.

COURSE OUTLINE

Day 1: Introduction to Medical Terminology and Anatomical Planes

- Overview of medical terminology
- Anatomical position and planes
- Directional terms
- Body cavities and regions
- Prefixes, suffixes, and root words
- Word building and analysis
- Common abbreviations
- Introduction to blood transfusion terminology

Day 2: The Skeletal and Muscular Systems

- Axial and appendicular skeleton
- Bone structure and function
- Joint classification and movement
- Muscle tissue types
- Major skeletal muscles
- Sliding filament theory
- Blood supply to bones and muscles
- Clinical correlations

Day 3: The Cardiovascular System

- Heart anatomy (chambers, valves, vessels)
- Coronary circulation
- Cardiac cycle and heart sounds
- Electrical conduction system
- Blood vessel structure and function
- Systemic and pulmonary circulation
- Blood pressure and regulation
- Common cardiovascular disorders

Day 4: Blood Composition and Haematology

- Plasma, red cells, white cells, platelets
- Haematopoiesis and bone marrow
- Haemoglobin and oxygen transport
- Blood typing (ABO and Rh system)
- Cross-matching and compatibility
- Complete blood count (CBC)
- Coagulation cascade
- Anaemias and polycythaemia

Day 5: The Lymphatic and Immune Systems

- Lymphatic vessels and nodes
- Lymphoid organs (spleen, thymus, tonsils)
- Innate immunity (barriers, inflammation)
- Adaptive immunity (B and T cells)
- Antibodies and antigens

- Immune response to blood transfusion
- Autoimmune disorders
- Immunisation principles

Day 6: The Respiratory and Digestive Systems

- Upper and lower respiratory tract
- Lungs, pleura, and alveoli
- Ventilation and gas exchange
- Oxygen and carbon dioxide transport
- Digestive tract (mouth to anus)
- Accessory organs (liver, pancreas, gallbladder)
- Digestion and absorption
- Nutrition and metabolism

Day 7: The Urinary and Endocrine Systems

- Kidney anatomy and nephron
- Glomerular filtration, reabsorption, secretion
- Urine concentration and dilution
- Acid-base balance
- Pituitary, thyroid, adrenal glands
- Pancreatic hormones and diabetes
- Reproductive hormones
- Homeostatic feedback loops

Day 8: Blood Transfusion Terminology and Procedures

- Transfusion terminology (compatibility, crossmatch)
- Donor criteria and screening
- Whole blood and component separation
- Storage conditions and shelf life
- Pre-transfusion testing
- Administration procedures
- Documentation and traceability
- Adverse reactions overview

Day 9: Transfusion Safety, Complications, and Practical Integration

- Acute and delayed transfusion reactions
- Haemolytic, febrile, allergic reactions
- Bacterial contamination
- Transfusion-transmitted infections
- Haemovigilance and reporting
- Case studies (clinical scenarios)
- Review of key concepts
- Final assessment preparation

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 **12 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 24,400.00	R 24,400.00
1	In-House	R 31,700.00	R 31,700.00
1	On-Campus (Pretoria)	R 36,600.00	R 36,600.00

UPCOMING SESSIONS

Start	End	Method	Venue
21 Aug 2026	02 Sep 2026	On-Campus	Pretoria, South Africa
24 Aug 2026	03 Sep 2026	On-Campus	Durban, South Africa
25 Aug 2026	04 Sep 2026	On-Campus	Shenzhen, China
26 Aug 2026	07 Sep 2026	On-Campus	Harare, Zimbabwe
27 Aug 2026	08 Sep 2026	On-Campus	Bangkok, Thailand
28 Aug 2026	09 Sep 2026	On-Campus	Victoria Falls, Zimbabwe
28 Aug 2026	09 Sep 2026	On-Campus	Abu Dhabi, UAE
31 Aug 2026	10 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 252396) 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.

Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza, 1122 Burnett St, Hatfield 0028, Pretoria, Gauteng, South Africa
Tel: +27 12 004 8389 · WhatsApp: +27 65 077 6310 · apply@aatid.co.za · www.aatid.co.za