



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@aatikd.co.za · Website: www.aatikd.co.za

COURSE BROCHURE

3D Character and Object Animation

Communication Studies and Language / Media Studies

Unit Standard 242551 · NQF Level 5 · 10 Credits · 7 Days

COURSE OVERVIEW

This course equips learners with the skills to animate 3D characters and objects for use in film, gaming, and simulation. Participants will master keyframe animation, rigging, and motion principles to produce realistic and expressive animations. The course combines theoretical knowledge with practical exercises to develop industry-relevant competencies.

Category	Communication Studies and Language
Subfield	Media Studies
Unit Standard	242551
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	7 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply fundamental animation principles (squash and stretch, anticipation, follow-through) to 3D characters and objects.
- Demonstrate proficiency in using keyframe animation and timeline editing to create smooth motion sequences.
- Analyze character rigs and implement bone systems and constraints for realistic deformation.
- Design and execute walk cycles, facial expressions, and object interactions using industry-standard software.
- Evaluate animation quality through motion curves and dope sheet adjustments to refine timing and spacing.
- Implement final animation outputs with appropriate rendering settings and export formats.

WHO SHOULD ATTEND

- This course is designed for aspiring 3D animators, game developers, multimedia artists, and professionals seeking to enhance their animation skills in a corporate or creative environment.

COURSE OUTLINE

Day 1: Introduction to 3D Animation Principles

- Overview of 3D animation in film, games, and advertising.
- The 12 principles: squash & stretch, anticipation, staging, etc.
- Introduction to industry-standard software (e.g., Blender, Maya).
- Navigating the 3D viewport and basic transforms.
- Setting up a project and understanding file management.

Day 2: Keyframing and Timing Fundamentals

- Keyframe creation and interpolation types.
- Timing charts and spacing diagrams.
- Introduction to the Dope Sheet and Graph Editor.
- Adjusting ease-in/ease-out for natural movement.
- Simple bouncing ball exercise.

Day 3: Object Animation – Mechanical and Inanimate Motion

- Animating a pendulum and a rolling ball.
- Using constraints (point, aim, parent).
- Hierarchical animation: a robot arm.
- Introduction to rigid body physics.
- Keyframing a simple machine cycle.

Day 4: Character Rigging and Skinning Basics

- Creating a simple biped rig (joints and bones).
- Forward kinematics (FK) vs inverse kinematics (IK).
- Skinning: assigning vertex weights.
- Painting weights to correct deformations.
- Posing the character to verify rig functionality.

Day 5: Character Animation – Walk Cycle and Body Mechanics

- Walk cycle breakdown: contact, down, passing, up poses.
- Animating the lower body: feet, hips, and knees.
- Upper body: spine, arms, and head.
- Adding personality: a happy walk vs a tired walk.
- Refining timing and spacing in the Graph Editor.

Day 6: Facial Animation and Lip Sync

- Introduction to facial rigging (blend shapes/joints).
- Basic phonemes and visemes for lip sync.
- Animating a simple dialogue clip.
- Eye darts, blinks, and brow raises.
- Combining body and facial animation.

Day 7: Final Project – Scene Animation and Integration

- Storyboarding and planning a 10-15 second scene.
- Blocking out key poses and refining animation.
- Adding secondary motion (hair, cloth, props).
- Lighting and camera setup for presentation.

- Rendering settings and output formats.
- Peer review and critique session.

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 **10 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 29,600.00	R 29,600.00
1	In-House	R 38,500.00	R 38,500.00
1	On-Campus (Pretoria)	R 44,400.00	R 44,400.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	11 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	12 Aug 2026	On-Campus	Pretoria, South Africa
04 Aug 2026	12 Aug 2026	On-Campus	Lagos, Nigeria
05 Aug 2026	13 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	14 Aug 2026	On-Campus	Mauritius
07 Aug 2026	17 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	18 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	19 Aug 2026	On-Campus	Abu Dhabi, UAE

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 242551) 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@aaticd.co.za · www.aaticd.co.za