



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

3D Animation Composite Layers Techniques

Communication Studies and Language / Media Studies

Unit Standard 242548 · NQF Level 5 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with advanced techniques for compositing layers in 3D animation, enabling them to integrate multiple visual elements seamlessly. Participants will master the art of combining rendered layers, effects, and backgrounds to produce polished, professional-quality animations.

Category	Communication Studies and Language
Subfield	Media Studies
Unit Standard	242548
Accreditation	SAQA Accredited · NQF Level 5 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply compositing techniques to merge multiple 3D animation layers into a cohesive final output.
- Analyze the visual impact of layer order, blending modes, and transparency settings in animation sequences.
- Evaluate different compositing software tools and select appropriate methods for specific animation projects.
- Design complex composite scenes incorporating effects, lighting, and depth-of-field adjustments.
- Implement color correction and grading techniques to ensure consistency across composited layers.
- Demonstrate the ability to troubleshoot common compositing issues, such as edge artifacts and motion blur misalignment.

WHO SHOULD ATTEND

- This course is designed for 3D animators, visual effects artists, and multimedia designers seeking to enhance their compositing skills.
- It is ideal for professionals who have basic 3D animation knowledge and wish to specialize in layer-based post-production workflows.

COURSE OUTLINE

Day 1: Foundations of Composite Layering

- Introduction to composite layering in 3D animation
- Overview of compositing software (After Effects, Nuke, Fusion)
- Layer types: color, alpha, depth, and effects
- Blending modes and opacity controls
- Layer order and hierarchy
- Pre-compositing vs. post-compositing
- Importing 3D renders and image sequences
- Basic project setup and file management

Day 2: Keying, Masking, and Rotoscoping

- Chroma keying: green screen and blue screen
- Luma key and difference key
- Masking tools: bezier, roto-bezier, and B-spline
- Rotoscoping workflows and frame-by-frame adjustment
- Refining edges: feather, choke, and blur
- Spill suppression and color correction
- Combining keys and masks
- Practical tips for clean composites

Day 3: Motion Tracking and Camera Matching

- 2D point tracking: single and multiple points
- Planar tracking for perspective and corner pinning
- 3D camera tracking: solving camera movement
- Applying tracking data to 3D layers
- Integrating 3D renders with tracked footage
- Stabilization techniques
- Troubleshooting tracking drift and jitter
- Practical exercise: tracking a moving object

Day 4: Depth Compositing and Multi-Pass Rendering

- Understanding depth channels and Z-depth
- Multi-pass rendering: beauty, diffuse, specular, reflection, etc.
- Recombining passes with blending modes
- Adjusting pass contributions for creative control
- Depth of field effects using Z-depth
- Atmospheric effects: fog, haze, and mist
- Workflow for multi-pass compositing
- Performance considerations and file management

Day 5: Advanced Techniques and Final Project

- Color grading: LUTs, curves, and color wheels
- Visual effects: glows, flares, and particles
- Expressions for dynamic layer properties
- Scripting for repetitive tasks
- Integrating 3D text and logos

- Advanced lighting and shadow composites
- Final project: create a 30-second composite scene
- Presentation and peer critique

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 **8 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 24,200.00	R 24,200.00
1	In-House	R 31,400.00	R 31,400.00
1	On-Campus (Pretoria)	R 36,200.00	R 36,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
03 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Mauritius
03 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa

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 242548) 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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