



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

Studio Lighting Monitoring and Control

Communication Studies and Language / Media Studies

Unit Standard 243964 · NQF Level 5 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the skills to effectively monitor and control studio lighting systems in a professional broadcast or film production environment. Participants will gain practical knowledge of lighting equipment, control interfaces, and troubleshooting techniques to ensure optimal lighting quality and consistency.

Category	Communication Studies and Language
Subfield	Media Studies
Unit Standard	243964
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 principles of lighting control to adjust intensity, colour temperature, and direction for various production scenarios.
- Demonstrate the ability to operate lighting control consoles and software to monitor and modify lighting setups.
- Analyze lighting conditions using meters and visual assessment to ensure compliance with production requirements.
- Implement corrective actions to address lighting faults or inconsistencies during live or recorded productions.
- Evaluate the effectiveness of lighting configurations and propose adjustments for improved visual output.

WHO SHOULD ATTEND

- This course is designed for lighting technicians, broadcast engineers, and production staff responsible for setting up and managing studio lighting in television, film, or photography studios.

COURSE OUTLINE

Day 1: Introduction to Studio Lighting Principles

- Overview of studio lighting: purpose and applications.
- Key lighting equipment: strobes, continuous lights, modifiers, and accessories.
- Fundamental lighting parameters: intensity, colour temperature, and beam spread.
- Introduction to lighting control systems: manual vs. automated.
- Health and safety considerations in studio lighting setups.
- Basic measurement tools: light meters, colour meters, and spectrometers.
- Practical demonstration: setting up a basic lighting kit.
- Group discussion: common lighting challenges in studios.

Day 2: Lighting Monitoring Techniques and Tools

- In-depth use of light meters: incident vs. reflected readings.
- Colour temperature measurement and correction using colour meters.
- Monitoring light consistency: techniques for strobes and continuous lights.
- Identifying and troubleshooting flicker and colour inaccuracies.
- Introduction to software-based monitoring tools.
- Practical exercise: measuring and recording lighting parameters.
- Case studies: real-world monitoring scenarios.
- Review of calibration procedures for monitoring equipment.

Day 3: Lighting Control Systems and Protocols

- Overview of control protocols: DMX512, RDM, and Art-Net.
- Setting up a DMX network: controllers, cables, and terminations.
- Basic programming: creating cues, scenes, and chases.
- Using software for lighting control: QLC+, GrandMA, or equivalent.
- Feedback loops: using monitoring data to adjust control parameters.
- Wireless control options and their limitations.
- Practical workshop: programming a simple lighting sequence.
- Troubleshooting common control system issues.

Day 4: Advanced Monitoring and Automation

- Advanced sensor integration: ambient light sensors, colour sensors.
- Automated feedback loops: closed-loop control for consistency.
- Colour calibration: using spectrometers for precise colour matching.
- Data logging and analysis for performance evaluation.
- Creating custom monitoring dashboards (e.g., using Arduino or Raspberry Pi).
- Case studies: automated lighting in film and photography studios.
- Practical exercise: setting up a sensor-based monitoring system.
- Discussion: future trends in lighting automation.

Day 5: Integration, Best Practices, and Assessment

- Best practices for lighting monitoring and control in studios.
- System integration: combining hardware, software, and sensors.
- Maintenance and calibration schedules for equipment.
- Troubleshooting advanced issues: network problems, interference, etc.
- Review of unit standard outcomes and assessment criteria.

- Practical assessment: set up, monitor, and control a lighting system.
- Feedback session and course evaluation.
- Resources for continued learning and professional development.

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
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Pretoria, 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 243964) 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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