



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

Electronic Circuit Simulation Software Skills

Physical, Mathematical, Computer and Life Sciences / Information Technology and Computer Sciences

Unit Standard 259163 · NQF Level 4 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the skills to use industry-standard software for designing, simulating, and analysing electronic circuits. Participants will gain practical experience in creating schematic diagrams, running simulations, and interpreting results to verify circuit performance. The course bridges theoretical knowledge with hands-on application, preparing learners for roles in electronics design and testing.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Information Technology and Computer Sciences
Unit Standard	259163
Accreditation	SAQA Accredited · NQF Level 4 · 4 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply software tools to create schematic diagrams of electronic circuits.
- Simulate electronic circuits using appropriate simulation parameters.
- Analyse simulation results to verify circuit functionality and performance.
- Evaluate circuit behaviour under varying conditions using simulation software.
- Demonstrate the ability to troubleshoot and modify circuits based on simulation feedback.

WHO SHOULD ATTEND

- This course is ideal for electronics technicians, engineers, and hobbyists who need to develop proficiency in electronic circuit simulation software.
- It is also suitable for students and professionals seeking to enhance their design and verification skills.

COURSE OUTLINE

Day 1: Introduction to Electronic Circuit Simulation

- Overview of electronic circuit simulation and its applications
- Introduction to simulation software: interface, menus, and toolbars
- Creating a new project and placing components from libraries
- Wiring components and editing properties
- Running DC operating point and transient analysis
- Viewing and analyzing simulation waveforms
- Common simulation errors and debugging techniques

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

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 9,400.00	R 9,400.00
1	In-House	R 12,200.00	R 12,200.00
1	On-Campus (Pretoria)	R 14,100.00	R 14,100.00

UPCOMING SESSIONS

No sessions are currently scheduled. Please contact us to arrange a session at a time and location that suits your team.

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 259163) 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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