



## 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

# Basic Soldering Techniques For Electronics And Wiring Training

Physical Planning and Construction / Electrical Infrastructure Construction

Unit Standard 113863 · NQF Level 2 · 2 Credits · 1 Day

## COURSE OVERVIEW

This course equips learners with the fundamental skills required to perform basic soldering techniques for electronics and wiring applications. It covers safe handling of soldering equipment, proper joint preparation, and quality inspection to ensure reliable electrical connections. The training is designed to meet industry standards and enhance workplace efficiency in electronic assembly and repair tasks.

|                 |                                           |
|-----------------|-------------------------------------------|
| Category        | Physical Planning and Construction        |
| Subfield        | Electrical Infrastructure Construction    |
| Unit Standard   | 113863                                    |
| Accreditation   | SAQA Accredited · NQF Level 2 · 2 Credits |
| Duration        | 1 day                                     |
| Training Method | Online, On-Campus, In-House               |
| Certificate     | Issued via AATICD LMS – verifiable online |

## LEARNING OUTCOMES

- Apply safety precautions and procedures when using soldering equipment and handling electronic components.
- Demonstrate correct preparation of soldering iron, components, and work area for effective soldering.
- Perform basic soldering techniques to create reliable electrical connections on printed circuit boards and wiring.
- Inspect soldered joints for quality and identify common defects such as cold joints, bridges, and insufficient wetting.
- Implement desoldering techniques to remove and replace components without damaging the circuit board.
- Evaluate the integrity of soldered connections using visual inspection and basic testing methods.

## WHO SHOULD ATTEND

- This course is ideal for technicians, hobbyists, and entry-level electronics workers who need to develop or refine their soldering skills for electronic circuit assembly, wiring, and minor repair work.

## COURSE OUTLINE

### Day 1: Fundamentals of Soldering and Practical Application

- Introduction to soldering: theory, applications, and safety.
- Soldering tools and equipment: soldering irons, tips, stands, and cleaning tools.
- Solder types and fluxes: lead-based vs. lead-free, rosin core, and flux applications.
- Surface preparation: tinning, cleaning, and component lead forming.
- Basic soldering techniques: through-hole, wire-to-wire, and terminal soldering.
- Desoldering methods: wick, pump, and heat-based removal.
- Inspection and quality control: visual criteria for good and bad joints.
- Health and safety: fume extraction, fire prevention, and personal protective equipment.

## 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 **2 NQF credits** at **NQF Level 2**.

## PRICING (PER DELEGATE, EX-VAT)

| Delegates | Training Method      | Price per Delegate | Total       |
|-----------|----------------------|--------------------|-------------|
| 1         | Online               | R 12,800.00        | R 12,800.00 |
| 1         | In-House             | R 16,600.00        | R 16,600.00 |
| 1         | On-Campus (Pretoria) | R 19,200.00        | R 19,200.00 |

## UPCOMING SESSIONS

| Start       | End         | Method    | Venue                   |
|-------------|-------------|-----------|-------------------------|
| 05 Aug 2026 | 05 Aug 2026 | On-Campus | Mauritius               |
| 06 Aug 2026 | 06 Aug 2026 | On-Campus | Cape Town, South Africa |
| 07 Aug 2026 | 07 Aug 2026 | On-Campus | Dubai, UAE              |
| 10 Aug 2026 | 10 Aug 2026 | On-Campus | Abu Dhabi, UAE          |
| 11 Aug 2026 | 11 Aug 2026 | On-Campus | Durban, South Africa    |
| 11 Aug 2026 | 11 Aug 2026 | On-Campus | Mauritius               |
| 12 Aug 2026 | 12 Aug 2026 | On-Campus | Cape Town, South Africa |
| 13 Aug 2026 | 13 Aug 2026 | On-Campus | Dubai, 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](http://www.aaticd.co.za), open the page for this course (Unit Standard 113863) 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](mailto: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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