



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

Cut Screw Threads and Install Threaded Pipe Systems

Custom Courses / Engineering and Instrumentation

Unit Standard AATICD-0033 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the skills to cut screw threads on pipes and install threaded pipe systems safely and in compliance with industry standards. Participants will gain practical knowledge of threading techniques, pipe fitting, and system testing, ensuring reliable and leak-free installations in plumbing, irrigation, and industrial applications.

Category	Custom Courses
Subfield	Engineering and Instrumentation
Unit Standard	AATICD-0033
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the correct selection and use of threading tools and dies to cut screw threads on pipes of various materials and sizes.
- Apply appropriate techniques to assemble threaded pipe joints, including the use of sealants and torque specifications, to ensure leak-tight connections.
- Install threaded pipe systems according to engineering drawings and specifications, including supports, hangers, and alignment.
- Test installed pipe systems for pressure integrity and functionality, identifying and rectifying any faults or leaks.
- Comply with relevant health, safety, and environmental regulations during all threading and installation activities.

WHO SHOULD ATTEND

- This course is designed for plumbers, pipe fitters, maintenance technicians, and construction workers who need to cut threads and install threaded pipe systems in residential, commercial, or industrial settings.

COURSE OUTLINE

Day 1: Introduction to Pipe Threading and Safety

- Overview of pipe threading standards (BSP, NPT, etc.)
- Safety regulations and personal protective equipment (PPE)
- Hand tools vs. power tools for threading
- Pipe materials and their suitability for threading
- Introduction to threaded fittings and joints
- Measuring and marking pipe for threading

Day 2: Hand Threading Techniques

- Components of a die stock and dies
- Selecting the correct die for pipe size
- Step-by-step hand threading procedure
- Common threading errors and corrections
- Thread inspection using ring and plug gauges
- Cleaning and deburring threaded ends

Day 3: Power Threading and Machine Operations

- Types of power threading machines
- Machine setup: speed, die head, and reamer
- Automatic vs. manual feed operation
- Threading schedule for different pipe diameters
- Cooling and lubrication systems
- Quality control and thread tolerance

Day 4: Assembly and Installation of Threaded Pipe Systems

- Thread sealants: tape, paste, and compounds
- Pipe wrenches and torque requirements
- Assembly sequence for complex systems
- Pipe hangers, clamps, and supports
- Pressure testing procedures
- Identifying and repairing leaks

Day 5: Advanced Applications and Final Assessment

- Threading stainless steel: challenges and techniques
- Galvanized pipe threading precautions
- Reading piping and instrumentation diagrams (P&IDs)
- System layout and material take-off
- Final project: assemble a working threaded pipe circuit
- Written and practical assessment

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 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
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Harare, Zimbabwe
17 Aug 2026	21 Aug 2026	On-Campus	Shenzhen, China
24 Aug 2026	28 Aug 2026	On-Campus	Bangkok, Thailand
24 Aug 2026	28 Aug 2026	On-Campus	Victoria Falls, Zimbabwe

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 AATICD-0033) 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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