



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

Demonstrate And Understanding Of The Operating Principles In The Maintenance Of Firearms Training

Law, Military Science and Security / Safety in Society

Unit Standard 119783 · NQF Level 4 · 18 Credits · 15 Days

COURSE OVERVIEW

This course equips learners with the knowledge to understand and apply the operating principles involved in the maintenance of firearms. It covers safe handling, cleaning, inspection, and basic troubleshooting to ensure firearms function reliably and safely.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	119783
Accreditation	SAQA Accredited · NQF Level 4 · 18 Credits
Duration	15 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate knowledge of the operating principles of various firearm types.
- Apply safe handling and maintenance procedures for firearms.
- Analyze common firearm malfunctions and identify appropriate corrective actions.
- Evaluate the condition of firearms through systematic inspection.
- Implement a routine cleaning and lubrication schedule for firearms.
- Demonstrate compliance with relevant legislation and safety standards.

WHO SHOULD ATTEND

- This course is designed for individuals who work with or are responsible for maintaining firearms in a professional capacity, such as security officers, firearm instructors, and armory personnel.

COURSE OUTLINE

Day 1: Introduction to Firearm Safety and Legal Framework

- Overview of the Firearms Control Act (Act 60 of 2000)
- Categories of firearms: handguns, rifles, shotguns
- Basic firearm safety rules
- Safe storage and transportation requirements
- Roles and responsibilities of firearm owners

Day 2: Firearm Anatomy and Function

- Barrel, action, stock, trigger group, magazine
- Firing sequence: loading, chambering, firing, extraction, ejection
- Action types: bolt, lever, pump, semi-automatic, revolver
- Calibre and cartridge components
- Understanding headspace and chamber dimensions

Day 3: Principles of Firearm Maintenance

- Maintenance schedules: daily, weekly, after use
- Types of fouling: powder, lead, copper, carbon
- Corrosion prevention: moisture, humidity, sweat
- Lubrication points and appropriate lubricants
- Preservation for storage: long-term vs. short-term

Day 4: Cleaning Tools, Solvents, and Lubricants

- Cleaning rods, patches, brushes, jags, and mops
- Solvents: degreasers, copper removers, carbon cleaners
- Lubricants: oils, greases, dry lubricants
- Protective coatings: rust preventatives
- Environmental and health considerations

Day 5: Field Stripping and Reassembly

- Field stripping procedures for Glock 17, R1/FAL, and shotgun
- Safety checks before disassembly
- Reassembly sequence and common pitfalls
- Function checks: slide lock, trigger reset, safety engagement
- Practice with multiple firearm types

Day 6: Detailed Cleaning and Inspection

- Bore cleaning: patches, solvents, and brushing techniques
- Chamber and forcing cone cleaning
- Inspection of firing pin, extractor, ejector, springs
- Measuring headspace and throat erosion
- Recording maintenance logs

Day 7: Lubrication and Assembly

- Lubrication points: slide rails, barrel hood, trigger mechanism
- Amount of lubricant: thin film vs. excess
- Assembly verification steps
- Dry-fire testing for function

- Common lubrication mistakes

Day 8: Malfunction Diagnosis and Troubleshooting

- Types of malfunctions: stovepipe, double feed, failure to fire
- Ammunition-related issues: duds, squibs, overpressure
- Maintenance-related causes: fouling, lack of lubrication, worn parts
- Immediate action drills (tap-rack-bang)
- Diagnostic flowcharts

Day 9: Maintenance of Specific Firearm Types: Handguns

- Semi-automatic pistol: slide removal, barrel cleaning, recoil spring inspection
- Magazine maintenance: spring tension, follower condition
- Revolver: cylinder gap, timing, hand and star inspection
- Trigger pull weight and sear engagement
- Common handgun issues: limp wristing, magazine problems

Day 10: Maintenance of Specific Firearm Types: Rifles and Shotguns

- Bolt-action rifle: bolt disassembly, extractor inspection, bedding
- Semi-automatic rifle: gas tube cleaning, piston inspection, buffer spring
- Shotgun: choke tube maintenance, gas system (if semi-auto)
- Rimfire: lead fouling in barrel and action
- Scope and optic mounting considerations

Day 11: Advanced Maintenance Techniques and Tools

- Ultrasonic cleaning: process, solutions, precautions
- Bore scopes: evaluating barrel condition
- Trigger adjustment: sear engagement, overtravel, creep
- Threaded barrel and suppressor maintenance
- Long-term storage: cosmoline, silica gel, vacuum sealing

Day 12: Record Keeping and Maintenance Schedules

- Maintenance log formats: paper, spreadsheet, apps
- Recording round count, cleaning dates, part replacements
- Legal obligations: storage records, repair receipts
- Scheduling preventive maintenance
- Auditing maintenance records

Day 13: Safety Inspections and Range Procedures

- Pre-use inspection checklist: headspace, timing, function
- Safety flags and chamber indicators
- Range commands and safety briefings
- Live-fire function testing after maintenance
- Emergency procedures for malfunctions on the range

Day 14: Practical Assessment Preparation

- Timed field stripping and reassembly
- Cleaning and lubrication under supervision
- Malfunction scenarios: students diagnose and fix
- Inspection of firearms for wear and damage
- Completing maintenance logs accurately

Day 15: Summative Assessment and Course Closure

- Practical assessment: disassembly, cleaning, lubrication, reassembly
- Written test: safety, legal, maintenance principles
- Oral questioning: troubleshooting and decision-making
- Assessment debrief and remediation if needed
- Course evaluation and certificate issuance

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

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 48,600.00	R 48,600.00
1	In-House	R 63,200.00	R 63,200.00
1	On-Campus (Pretoria)	R 72,900.00	R 72,900.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	28 Aug 2026	On-Campus	Cape Town, South Africa
11 Aug 2026	31 Aug 2026	On-Campus	Dubai, UAE
12 Aug 2026	01 Sep 2026	On-Campus	Pretoria, South Africa
13 Aug 2026	02 Sep 2026	On-Campus	Abu Dhabi, UAE
14 Aug 2026	03 Sep 2026	On-Campus	Durban, South Africa
14 Aug 2026	03 Sep 2026	On-Campus	Mauritius
17 Aug 2026	04 Sep 2026	On-Campus	Harare, Zimbabwe
17 Aug 2026	04 Sep 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, open the page for this course (Unit Standard 119783) 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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