



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

Solve Joint And Multi National Military And Civil Military Problems By Applying Qualitative And Quantitative Problem Solving Techniques Training

Law, Military Science and Security / Sovereignty of the State

Unit Standard 119922 · NQF Level 6 · 12 Credits · 9 Days

COURSE OVERVIEW

This course equips military and civilian personnel with the skills to solve complex joint, multi-national, and civil-military problems using both qualitative and quantitative problem-solving techniques. Participants will learn to apply structured analytical methods to address operational, strategic, and tactical challenges in diverse military and civil-military contexts.

Category	Law, Military Science and Security
Subfield	Sovereignty of the State
Unit Standard	119922
Accreditation	SAQA Accredited · NQF Level 6 · 12 Credits
Duration	9 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply qualitative problem-solving techniques such as root cause analysis, brainstorming, and SWOT analysis to joint and multi-national military problems.
- Apply quantitative problem-solving techniques including statistical analysis, decision matrices, and cost-benefit analysis to civil-military problems.
- Evaluate the suitability of qualitative versus quantitative methods for specific joint and multi-national problem contexts.
- Design integrated problem-solving approaches that combine qualitative and quantitative techniques for complex military and civil-military scenarios.
- Implement structured problem-solving processes in joint and multi-national teams, ensuring effective communication and collaboration.

- Demonstrate the ability to present and justify problem-solving recommendations to diverse stakeholders in military and civil-military settings.

WHO SHOULD ATTEND

- Military officers, defence force personnel, and civilian professionals working in joint, multi-national, or civil-military environments who are required to solve complex problems collaboratively.

COURSE OUTLINE

Day 1: Foundations of Joint, Multi-National, and Civil-Military Problem Solving

- Overview of joint, multi-national, and civil-military operations.
- The nature of complex military problems.
- Stakeholder analysis in multi-domain environments.
- Introduction to problem-solving frameworks.
- Contrasting qualitative vs. quantitative methods.
- Ethical and cultural considerations.

Day 2: Qualitative Problem-Solving Techniques – Part 1

- Brainstorming techniques for diverse teams.
- Mind mapping for problem structuring.
- Affinity diagrams to cluster issues.
- Fishbone (Ishikawa) diagrams for root cause analysis.
- Nominal group technique and multi-voting.
- SWOT analysis for situational assessment.

Day 3: Qualitative Problem-Solving Techniques – Part 2

- Force field analysis for identifying driving and restraining forces.
- Scenario planning and developing alternative futures.
- Delphi technique for structured expert input.
- Cognitive mapping and influence diagrams.
- Combining qualitative techniques: a case study approach.

Day 4: Quantitative Problem-Solving Techniques – Part 1

- Descriptive statistics: mean, median, mode, standard deviation.
- Probability concepts and distributions.
- Decision trees for sequential decisions.
- Cost-benefit and cost-effectiveness analysis.
- Sensitivity analysis for robustness.
- Introduction to simulation modelling.

Day 5: Quantitative Problem-Solving Techniques – Part 2

- Linear programming: formulation and graphical solution.
- Network analysis: PERT and critical path method.
- Queuing theory: basic models and applications.
- Monte Carlo simulation for uncertainty.
- Data visualisation for decision support.
- Communicating quantitative results to non-experts.

Day 6: Integrating Qualitative and Quantitative Methods

- Frameworks for method selection.
- Triangulation of qualitative and quantitative data.
- Mixed-methods case study: logistics planning.
- Decision analysis under time constraints.
- Balancing stakeholder input with empirical evidence.
- Pitfalls of method integration.

Day 7: Application in Joint and Multi-National Contexts

- Joint operations planning challenges.
- Multi-national command and control structures.
- Cultural awareness and communication strategies.
- Facilitating multi-national workshops.
- Case study: Coalition logistics problem.
- Lessons learned from multi-national exercises.

Day 8: Application in Civil-Military Contexts

- Civil-military cooperation (CIMIC) principles.
- Humanitarian assistance and disaster relief scenarios.
- Stakeholder mapping for civil-military interfaces.
- Negotiation and conflict resolution techniques.
- Case study: Post-conflict reconstruction.
- Legal and policy frameworks.

Day 9: Capstone Exercise and Course Integration

- Capstone scenario: multi-national civil-military crisis.
- Team-based problem-solving using integrated methods.
- Presentation of solutions to a panel.
- Peer feedback and critique.
- Personal action plan for continued learning.
- Course summary and evaluation.

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 **12 NQF credits** at **NQF Level 6**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 36,600.00	R 36,600.00
1	In-House	R 47,600.00	R 47,600.00
1	On-Campus (Pretoria)	R 55,000.00	R 55,000.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	20 Aug 2026	On-Campus	Abu Dhabi, UAE
11 Aug 2026	21 Aug 2026	On-Campus	Durban, South Africa
11 Aug 2026	21 Aug 2026	On-Campus	Mauritius
12 Aug 2026	24 Aug 2026	On-Campus	Cape Town, South Africa
13 Aug 2026	25 Aug 2026	On-Campus	Dubai, UAE
14 Aug 2026	26 Aug 2026	On-Campus	Pretoria, South Africa
17 Aug 2026	27 Aug 2026	On-Campus	Durban, South Africa
18 Aug 2026	28 Aug 2026	On-Campus	Shenzhen, China

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 119922) 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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