



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

Vehicle Load Evaluation and Calculation

Law, Military Science and Security / Safety in Society

Unit Standard 256521 · NQF Level 4 · 10 Credits · 7 Days

COURSE OVERVIEW

This course equips learners with the skills to evaluate and calculate loads on vehicles to ensure safe transportation and compliance with South African road traffic regulations. Participants will learn to assess load distribution, stability, and weight limits to prevent overloading and accidents. The course emphasizes practical application in logistics and transport operations.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	256521
Accreditation	SAQA Accredited · NQF Level 4 · 10 Credits
Duration	7 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply relevant legislation and standards to evaluate vehicle loads.
- Calculate load mass, volume, and distribution to ensure compliance with legal limits.
- Assess vehicle stability and load security to prevent accidents.
- Analyze load characteristics and their impact on vehicle performance.
- Demonstrate correct procedures for loading and securing different types of cargo.
- Evaluate load-related risks and implement control measures.

WHO SHOULD ATTEND

- This course is designed for transport managers, logistics supervisors, fleet operators, and drivers responsible for loading and securing goods on vehicles.
- It is also suitable for health and safety officers involved in vehicle load management.

COURSE OUTLINE

Day 1: Introduction to Vehicle Load Evaluation

- Overview of vehicle load evaluation regulations in South Africa
- Types of vehicles: light, medium, and heavy vehicles
- Gross Vehicle Mass (GVM), Gross Combination Mass (GCM), and payload
- Principles of load distribution and centre of gravity
- Consequences of overloading: safety, legal, and mechanical
- Relevant SAQA unit standards and legislation

Day 2: Load Calculation Fundamentals

- Axle load limits and regulations
- Calculating payload: GVM minus tare weight
- Load distribution formulas for different axle configurations
- Practical examples of load calculations
- Using manufacturer data sheets
- Introduction to load calculation software

Day 3: Load Securement and Safety

- Legal requirements for load securement (SANS 10228)
- Types of securing devices: chains, straps, ropes
- Friction and its role in load restraint
- Calculating tie-down force requirements
- Load shift prevention techniques
- Practical demonstrations of securement methods

Day 4: Practical Load Calculation Exercises

- Step-by-step load calculation for a rigid truck
- Load calculation for a truck-trailer combination
- Using load calculation software
- Cross-checking calculations with manufacturer specs
- Common calculation errors and how to avoid them
- Practical exercise: load planning for a delivery

Day 5: Load Evaluation for Special Vehicles

- Load evaluation for tankers: liquid surge and weight distribution
- Tippers: load stability and tipping sequence
- Abnormal loads: permits, route planning, and escort requirements
- Load evaluation for trailers and interlinks
- Special considerations for hazardous materials
- Case studies: load evaluation challenges

Day 6: Practical Load Securement and Evaluation

- Hands-on load securement practice
- Inspection of load securement equipment
- Evaluating load distribution and centre of gravity
- Using load inspection checklists
- Practical exercise: secure a mixed load on a flatbed

- Group activity: peer evaluation of load securement

Day 7: Integration and Assessment

- Review of key concepts and formulas
- Comprehensive load evaluation exercise
- Written and practical assessment
- Feedback and discussion
- Course wrap-up and certification information

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 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 28,200.00	R 28,200.00
1	In-House	R 36,700.00	R 36,700.00
1	On-Campus (Pretoria)	R 42,300.00	R 42,300.00

UPCOMING SESSIONS

Start	End	Method	Venue
11 Aug 2026	19 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	20 Aug 2026	On-Campus	Durban, South Africa
12 Aug 2026	20 Aug 2026	On-Campus	Mauritius
13 Aug 2026	21 Aug 2026	On-Campus	Cape Town, South Africa
14 Aug 2026	24 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	25 Aug 2026	On-Campus	Abu Dhabi, UAE
18 Aug 2026	26 Aug 2026	On-Campus	Durban, South Africa
19 Aug 2026	27 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 256521) 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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