



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

Face Configuration Effects On Stress Fracture Patterns Analysis Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 115751 · NQF Level 4 · 3 Credits · 1 Day

COURSE OVERVIEW

This course equips participants with the specialist knowledge to analyse how facial configuration influences stress fracture patterns in materials and structures. Learners will apply engineering principles to predict, identify, and mitigate fracture risks in demanding environments.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	115751
Accreditation	SAQA Accredited · NQF Level 4 · 3 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Analyse the relationship between facial configuration and stress distribution in materials
- Evaluate stress fracture patterns using computational and experimental methods
- Apply fracture mechanics principles to predict failure modes in complex geometries
- Design mitigation strategies to reduce stress fracture risks in structural components
- Demonstrate proficiency in interpreting fracture surface morphology and crack propagation

WHO SHOULD ATTEND

- The course is designed for forensic engineers, materials scientists, and safety analysts who investigate structural failures or assess fracture risks in aerospace, automotive, and mining industries.

COURSE OUTLINE

Day 1: Face Configuration Effects on Stress Fracture Patterns Analysis

- Introduction to stress fractures: definition, aetiology, and relevance to facial bones.
- Anatomy of the facial skeleton: key structures and stress-bearing areas.
- Biomechanics of facial loading: impact forces, vectors, and energy dissipation.
- Facial configuration parameters: bone density, curvature, thickness, and sutural integrity.
- Analytical methods: finite element analysis (FEA) and fracture pattern mapping.
- Case-based analysis: correlating facial types with common fracture patterns.
- Practical exercise: interpreting stress fracture patterns from imaging data.
- Integration and assessment: applying concepts to real-world forensic and clinical scenarios.

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 **3 NQF credits** at **NQF Level 4**.

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
04 Aug 2026	04 Aug 2026	On-Campus	Johannesburg, South Africa
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

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 115751) 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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