



## 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

# Dredge Repair Techniques for Mining Operations

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 253355 · NQF Level 2 · 4 Credits · 1 Day

## COURSE OVERVIEW

This course equips learners with the knowledge and skills required to safely and effectively repair a dredge used in mining operations. It covers inspection, diagnosis, and repair techniques for mechanical and hydraulic systems, ensuring minimal downtime and compliance with safety standards.

|                 |                                           |
|-----------------|-------------------------------------------|
| Category        | Manufacturing, Engineering and Technology |
| Subfield        | Fabrication and Extraction                |
| Unit Standard   | 253355                                    |
| Accreditation   | SAQA Accredited · NQF Level 2 · 4 Credits |
| Duration        | 1 day                                     |
| Training Method | Online, On-Campus, In-House               |
| Certificate     | Issued via AATICD LMS – verifiable online |

## LEARNING OUTCOMES

- Demonstrate knowledge of dredge components and their functions.
- Analyze common dredge failures and diagnose root causes.
- Apply safe repair procedures for mechanical and hydraulic systems.
- Implement repair techniques to restore dredge functionality.
- Evaluate repair quality and verify operational readiness.
- Document repair activities and report outcomes according to workplace procedures.

## WHO SHOULD ATTEND

- This course is designed for maintenance technicians, mechanical fitters, and mining personnel responsible for the repair and maintenance of dredging equipment in mining environments.

## COURSE OUTLINE

### Day 1: Dredge Repair Fundamentals and Techniques

- Overview of dredge systems: cutterhead, suction pipe, pump, and ladder
- Common wear and failure mechanisms: abrasion, corrosion, fatigue
- Safety protocols: confined space entry, lockout/tagout, hot work permits
- Welding techniques for wear-resistant materials: hardfacing, buildup, and repair welding
- Cutting methods: oxy-fuel, plasma, and gouging
- Mechanical repair: alignment, bearing replacement, and seal maintenance
- Inspection and quality control: NDT methods (MPI, UT) and thickness gauging
- Documentation and reporting for repair records

## 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 **4 NQF credits** at **NQF Level 2**.

## 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 | Mauritius               |
| 05 Aug 2026 | 05 Aug 2026 | On-Campus | Cape Town, South Africa |
| 06 Aug 2026 | 06 Aug 2026 | On-Campus | Dubai, UAE              |
| 07 Aug 2026 | 07 Aug 2026 | On-Campus | Pretoria, South Africa  |
| 07 Aug 2026 | 07 Aug 2026 | On-Campus | Lagos, Nigeria          |
| 10 Aug 2026 | 10 Aug 2026 | On-Campus | Durban, South Africa    |
| 10 Aug 2026 | 10 Aug 2026 | On-Campus | Mauritius               |
| 11 Aug 2026 | 11 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](http://www.aaticd.co.za), open the page for this course (Unit Standard 253355) 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](mailto: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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