



HEAVY EQUIPMENT MECHANIC

Qualification Purpose

The purpose of this qualification is to prepare a learner to operate as a Heavy Equipment Mechanic. A Heavy Equipment Mechanic maintains, diagnoses faults in and repairs heavy equipment such as earth moving or mining equipment, including engines, mechanical parts and hydraulically or electrically powered systems. A qualified learner will be able to:

- Perform preventative and scheduled maintenance on heavy equipment.
- Dismantle, assess, repair, and reassemble heavy equipment engine and power train system components.
- Diagnose and repair faults in heavy equipment diesel engine and power train systems.

Foundational Learning Competence (SAQA Minimum Entry Level)

NQF Level 1 qualification with Mathematics

Trade Test Requirements

Learner should have passed:

- a) N2 Mathematics Engineering Science, Engineering Drawings, Petrol / Diesel Trade Theory
- b) N2 Certificate including the four relevant subjects of maths, engineering science and a fourth subject as required by the trade: or
- c) Technical trade theory programs quality assured by a SETA deemed to be equivalent to NQF level 3 (N2); or
- d) Relevant Engineering NCV Certificate with seven subjects at NQF level 3; or
- e) Technical Grade 11 with Maths, Science, Language, and related trade theory subject; or
- f) Relevant (directly related to the trade theory subjects) N6 certificate or National Technical Diploma (T, S or N stream.)

In addition to the above-mentioned minimum educational qualification the applicant must also have:

- a) Successfully completed all off the job practical training unit standards (in the case of learnerships) or modules (in the case of an apprenticeship) of an artisan learning program at an accredited training provider as verifiable by training records (logbook).
- b) Satisfied the requirements of the structured workplace, on the job, learning for a minimum period of 12 months verifiable through a workplace learning record (e.g. logbook) unless other workplace period has been contractually specified before the date of publication of this Regulation.

Note: A Logbook is a record of all training the learner has received, contributing to their portfolio of evidence.

Skills Obtained as Outcomes

- Perform preventative and scheduled maintenance on heavy equipment.
- Dismantle, assess, repair, and reassemble heavy equipment engine and power train system components.
- Diagnose and repair faults in heavy equipment diesel engine and power train systems.

Qualification Outcome

Qualified HEM mechanic (red seal) Internationally recognised.

Types of Jobs Pertaining to the Trade

- Entrepreneur / Contractor
- As an employee in any of the industries listed

Industries where they can work if qualified.

- Mining,
- Manufacturing,
- Agriculture,
- Civil,
- Logistics,
- Anywhere there are heavy diesel machines working.

Approximate Trade Duration:

Off the job practical training

- Phase 1 – Duration – 12 Weeks
- Phase 2 – Duration – 12 Weeks
- Phase 3 – Duration – 8 Weeks
- Phase 4 – Duration – 4 Weeks (Revision and Trade Test)

Workplace on the job experience

- 18 months. Registered learner with a SETA.
- 3 years ARPL route.

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National Campuses:

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