

QUALIFICATION FACT SHEET – FITTER AND TURNER

1. Qualification Information

Qualification Title	Occupational Certificate: Fitter and Turner
Qualification ID	94020
NQF Level	4
Credits	548
Duration	33 Months, (2 years, 9 months)
Accreditation Body	Quality Council for Trades and Occupations (QCTO)
Training Location	Doornfontein and Welkom

2. Purpose of the Qualification

The purpose of this qualification is to prepare a learner to operate as a **Fitter and Turner**. A Fitter and Turner manufactures and assembles components for machinery, maintains and repairs machinery, and ensures proper functioning of mechanical equipment. This qualification equips learners with the ability to interpret technical drawings, apply machining and fitting techniques, and ensure compliance with occupational health and safety standards.

Qualified learners will be able to:

- Interpret technical drawings and specifications for machining and fitting tasks.
- Set up and operate lathes, milling machines, and other machining equipment.
- Assemble, maintain, and repair mechanical systems and components.
- Perform turning, fitting, and machining operations to required tolerances.
- Apply safety, quality, and environmental standards in all tasks.

3. Exit Level Outcomes

Upon completion, learners will be able to:

1. Apply hand skills and machining processes to manufacture mechanical components.
2. Assemble, install, and maintain mechanical equipment and systems.
3. Diagnose and repair faults in mechanical systems and components.
4. Apply safety, health, and environmental standards in all work activities.

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4. Entry Requirements

- Minimum: Grade 10 / 11 / 12, or Equivalent qualification
- NQF Level 2 with English/Communication, Mathematics and Science.
- Recognition of Prior Learning (RPL) is permitted, subject to institutional and QCTO policies.
- Proficiency in English.

5. Course Modules and Structure

Knowledge Modules – Duration **3 months** – Credits **106**

- Engineering Fundamentals
- Fitting and Turning Theory
- Engineering Drawings and Tolerances
- Materials and Metallurgy
- Occupational Health, Safety and Environment

Practical Modules – Duration **9 months** – Credits **122**

- Set up and operate lathes and milling machines
- Perform fitting and turning operations to specified tolerances
- Fabricate, assemble, and repair mechanical components
- Apply machining operations such as drilling, grinding, and shaping
- Apply workplace safety and quality standards

Work Experience Modules – Duration **18 months** – Credits **320**

- Workplace exposure in fitting and turning operations
- Assembly, installation, and maintenance of mechanical systems
- Fault diagnosis and repair of components in operational contexts

External Integrated Summative Assessment (EISA) readiness, Serial Numbers and EISA – Duration **3 months**

- Serial Numbers Application
- Trade Test Preparation
- Trade Test

Total Duration **33 months | Total Credits **548****

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6. Progression Opportunities

- Graduates may progress to supervisory or technician roles, or
- Specialise further in areas such as precision machining, maintenance planning, or toolmaking.
- Further articulation is possible into NQF Level 5 qualifications in Mechanical Engineering or related fields.

7. Industries of Application

- Manufacturing and fabrication workshops
- Mining and heavy industries
- Power generation and utilities
- Petrochemical and oil/gas industries
- Maintenance and repair service industries

8. Accreditation and Quality Assurance

This qualification is accredited by the **Quality Council for Trades and Occupations (QCTO)**. Assessment and certification are conducted under the QCTO framework and in compliance with national standards for occupational qualifications.

9. Contact Information

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