

# OCCUPATIONAL CERTIFICATE **MILLWRIGHT**

(SAQA ID 97585) NQF LEVEL 4

## **COURSE OUTLINE**

During the knowledge modules, learners will be required to participate in various interactive activities, while the practical skills modules will require a demonstration of their acquired knowledge.

Progress will be monitored by the facilitator and eventually learners will be assessed against prescribed criteria to declare them competent against these practical modules. Individual learning progress will allow learners to complete the training at their own pace depending on previous exposure to similar knowledge and experience.

The workplace modules will take place in an accredited workplace, where students will be mentored and monitored by a subject matter expert.

Once all modules are complete, the student will be able to apply for a trade test.

## **COURSE MODULES**

- Engineering drawings
- Engineering materials
- Engineering tools and equipment
- Basic lifting concepts
- Types & functions of locking devices & fasteners
- Types and applications of screw threads
- Welding and materials
- Seals, pumps, valves and conveyors
- Maintain and align drives
- Gearboxes, brakes and clutches
- Lubrication and bearings
- Pneumatics and hydraulics
- Diagnostic techniques
- Tools and equipment for electrical work
- Electricity and electronics
- Wire ways and wiring (SANS 10142-1)
- Rotating electrical machinery
- Electrical supply systems and components
- Low voltage protection
- Fault finding



## **ENTRY REQUIREMENTS**

Minimum grade 9 (grade 12 advantageous)  
OR  
N2 technical qualification