



merSETA
MANUFACTURING, ENGINEERING
AND RELATED SERVICES SETA

TRAINING SCHEDULE FOR TIMEBASED APPRENTICES

FITTER & TURNER

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| Introduction to the Industry: | Responsibilities, appearance and attitude in work situation. | 28 |
| Safety: | Basic safety precautions applicable in the trade to be practised throughout apprenticeship, with special reference to safe handling and care of hand tools, noxious and flammable gases, liquids and gases under pressure, electrical installations, machine protection, machine and pneumatic tools, grinding wheels, moving and overhead machinery and use of portable fire extinguishers. Theory and practice of first aid. | 50 |
| Knowledge of: Hand and workshop tools: | Care and use of tools. Making of work pieces and/or parts using the techniques of chipping, drilling, filing, reaming, sawing, scraping, screwing and tapping. Sharpening of cutting tools. Use of pullers and presses. Dressing, trueing, checking and mounting of wheels on grinding machine. Use of securing, locking and sealing devices. | 100 |
| Brazing, soldering and welding: | Knowledge and use of gas and electric welding soldering processes. Annealing of materials. | 90 |
| Materials: | Knowledge of composition, physical properties and use of metals commonly used in the motor industry. | 300 |
| Drawings: | Reading and interpretation of drawing from workshop manuals and bulletins and blue prints. | 100 |
| Measuring: | Advanced knowledge of care and use of measuring instruments such as dial test indicators and micrometer types. | 100 |
| Basic work: | Simple lathe and milling machine work. Correct use of feeds and speeds for different materials and operations. | 350 |

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| Revision Number | Rev 00 | Access | Controlled |
| Review: Learning Programme Manager | | Approved: CEO | |

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| <p>More advanced work:</p> <p>Revision and independent work:</p> | <p>Fitting of components. Making of parts to drawings. General fitting practice, including assembly of parts. Repair and maintenance of machinery and equipment. Advanced centre lathe work, including screw cutting.</p> | <p>2 282</p> |
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