



## TEKmation Training Institute FET College

Engineering Education and Skills Development

Private Further Education and Training College

Company Reg : 2011/002576/07

DHET Reg No : 2011/FE07/078

Trade: Millwright

Code: MP1

Course Title: Millwright Phase 1

Course Duration: 12 Weeks

Course Content: This course is designed to enable the learner to receive a good basic grounding and exposure to the skills and equipment that is used in the trade. 1st year Apprentices.

- Induction to Tekmation.
- Occupational Safety.
- Basic First aid.
- Select, Use & Care For Engineering Hand Tools.
- Select, Use & Care For Engineering Workshop Tools.
- Identify And Select Materials.
- Marking Off - basic engineering shapes.
- Hand Skills - Grind Tools & Drill Bits.
- Perform Arc Welding.
- Perform Gas Welding & Brazing.
- Perform Gas Cutting & Heating.
- Measuring Equipment.





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Company Reg : 2011/002576/07

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Trade: Millwright

Code: MP2

Course Title: Millwright Phase 2

Course Duration: 18 Weeks

Course Content: 2nd year Apprentices who have successfully completed the Phase 1 Apprentice Fitter course are eligible or individuals who have been recommended for this course as a result of an evaluation conducted at this Centre. The course is designed to enable the learner to receive the skills and knowledge that is used in the trade.

- Read, Interpret & Produce Engineering Drawings & Sketches.
- Soldering and De-Soldering.
- Identify, Install & Test Conductors.
- Identify, Join & Test Cables.
- Identify, Install & Test AC Machines.
- Identify, Install & Test DC Machines.
- Identify, Install & Test Electronics
- Identify Produce & Install Keys and Locking Devices.
- Identify Maintain & Install Couplings.
- Identify Maintain & Install Drives.
- Identify Maintain & Install Brakes and Clutches.
- Hydraulic Systems - Symbols, Identify & Maintain.





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Company Reg : 2011/002576/07

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Trade: Millwright

Code: MP3

Course Title: Millwright Phase 3

Course Duration: 18 Weeks

Course Content: 3rd year Apprentices who have successfully completed the Phase 2 Apprentice Fitter course are eligible or individuals who have been recommended for this course as a result of an evaluation conducted at this Centre. The course is designed to enable the learner to receive the skills and knowledge that is used in the trade. Individuals how meet the apprentice requirement are eligible to attempt the National Trade Test.

- Electrical Testing Instruments (Portable).
- Electrical Measuring Instruments (Panel Mounted).
- Electrical Equipment.
- Design & Wiring Electrical Circuits.
- Installations work.
- Fault Finding.
- Design & Program PLC's Basic Lifting Techniques.
- Identify & Maintain Bearings.
- Identify Maintain Lubrication systems.
- Assemblies – Identify, Repair & Maintain Gearboxes.
- Installation of Machinery.
- Identify Maintain & Install Pumps.
- Pneumatic Systems - Symbols, Identify & Maintain.

