



TRAINING & APPRENTICESHIPS

Skills Development Programme



Mechanical Awareness



TDR Training are a leading training provider in the region, offering bespoke skills development programmes to enhance, upskill and retrain to meet future business demands.

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Overview

During the 5 day course students will learn the fundamentals of Mechanical systems and fault finding. Starting with general health & safety on tooling and equipment and the necessity of using the correct equipment. You will learn about connection methods of pipe & hose fittings, basic systems that include, bearings, chains and belts. You will also getting an understanding of Mechanical principles of forces and loads and the impact they can have on operational failure.



Training & Content

Duration 4 Days

- Health and Safety
- Hazard Identification
- Planning
- Practical Activities

Safety Induction Including:

- Be Safe Workbook
~Learners to complete an assessment based on health and safety in the workplace, identify hazard warning signs and other safety signs and symbols.
- Tool Safety
~Learners will understand the basic principles of selecting, using tooling in engineering activities.
- Workshop Hazards
~Learners will identify hazards within the work and complete an assessment to prove understanding.

Practical activities including:

- Practical exercise to assess learner's ability to understand drawings and follow instructions to complete a mechanical unit. Learners are observed whilst carrying out the exercise to ensure the correct use of tooling and method of assembly. At the end of the session, learners are asked to reflect on their experiences and identify the best method of assembly.
- Practical exercise to disassemble a unit preparing notes and photographic evidence to produce a standard operating procedure. The learners are observed whilst reassembling the unit following their standard operating procedure.

Final Assessment

- Learners will construct a test rig onto a wooden board to include the following.
 - ~ Work plan.
 - ~ Assembly of a pressure pump.
 - ~ Manufacture backing plate to support the pressure pump.
 - ~ Assemble filter assembly, and attach to the board.
 - ~ Select and attach pressure gauge.
 - ~ Use a selection of pipe fittings, hoses and fasteners to connect the units creating a test rig for the pressure pump.
 - ~ Carry out leak tests and operation of the test rig.
 - ~ Work report regarding activity

Certification

- TDR certificate of competence upon completion of training

TDR Training

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