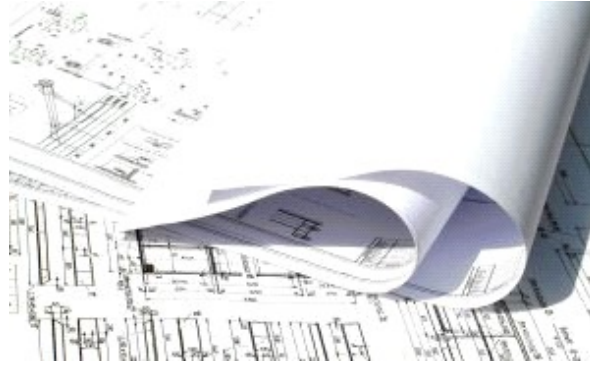


# Performing Engineering Operations NVQ Level 2



## Mandatory Units

- Working safely in an engineering environment
- Working efficiently and effectively in engineering
- Using and communicating technical information

## Optional Units—Group A—Choose 1 or 3 from Group B

- Producing mechanical engineering drawings using a CAD system
- Producing electrical or electronic engineering drawings using a CAD system
- Producing CAD models (drawings) using a CAD system

## Optional Units—Group B—Choose 2 or all 3

- Producing components using hand fitting techniques
- Producing mechanical assemblies
- Forming and assembling pipework systems
- Carrying out aircraft detail fitting activities
- Installing aircraft mechanical fasteners
- Producing aircraft detail assemblies
- Preparing and using lathes for turning operations
- Preparing and using milling machines
- Preparing and using grinding machines
- Preparing and providing CNC machine tool programs
- Preparing and using CNC turning machines
- Preparing and using CNC milling machines
- Preparing and using CNC machining centres
- Preparing and using industrial robots
- Maintaining mechanical devices and equipment
- Assembling and testing fluid power equipment
- Maintaining fluid power equipment
- Producing sheet metal components and assemblies
- Producing plate work components and assemblies
- Cutting and shaping materials using thermal cutting equipment
- Preparing and providing CNC fabrication machine tool programs
- Preparing and using CNC fabrication machinery
- Preparing and using metal manual metal arc welding equipment
- Preparing and using manual TIG or plasma-arc welding equipment

Please contact us on 0114 281 5718 for more information



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# Performing Engineering Operations NVQ Level 2



- Preparing and using manual MIG, MAG and other continuous wire welding equipment
- Preparing and using manual gas welding equipment
- Preparing and using manual flame brazing and bronze welding equipment
- Wiring and testing electrical equipment and circuits
- Forming and assembling electrical cable enclosure and support systems
- Assembling, wiring and testing electrical panels/components mounted in enclosures
- Assembling and testing electronic circuits
- Maintaining electrical equipment/systems
- Maintaining electronic equipment/systems
- Maintaining and testing process instrumentation and control devices
- Wiring and testing programmable controller based systems
- Using wood for pattern, model making and other engineering applications
- Assembling pattern, model and engineering woodwork components
- Producing composite mouldings using wet lay up techniques
- Producing composite mouldings using prepeg laminating techniques
- Producing composite mouldings using resin infusion techniques
- Producing composite assemblies
- Producing components by rapid prototyping techniques
- Producing and preparing sand moulds and cores for casting
- Producing and preparing materials for casting
- Producing cast components by manual means
- Fettling, finishing and checking cast components
- Finishing surfaces by applying coatings or coverings
- Finishing surfaces by applying treatments
- Carrying out heat treatments of engineering materials
- Carrying out hand forging of engineering materials
- Stripping and rebuilding motorsport vehicles (pre-competition)
- Inspecting a motorsport vehicle during a competition
- Diagnosing and rectifying faults on motorsport vehicle systems (during competitions)
- Carrying out maintenance activities on motorsport vehicle electrical equipment
- Stripping and rebuilding motorsport engines (pre-competition)

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