

NVQ/SVQ
**Performing Engineering
Operations**

Level 1 & 2



NVQs AND SVQs

AND HOW THEY WILL BENEFIT YOU...

National and Scottish Vocational Qualifications (NVQ/SVQs) recognise what a person is able to do at work. They involve the skills and knowledge needed to do the job, ability to organise work and spotting and stopping problems.

Each qualification has a level which shows what skills are needed to achieve the qualification. In the workplace, the levels can be described as:

- Level 1:** Foundation or basic skilled employees
- Level 2:** Operators or semi-skilled employees
- Level 3:** Technicians, craft, skilled and supervisory employees
- Level 4:** Technical and junior management positions
- Level 5:** Professional engineers and senior management positions

NVQ/SVQs are based on industry standards which must be met to be competent in a particular task. There's no need to go back to college or to sit exams, assessment is usually in the workplace. They're very flexible – a candidate doesn't have to start at Level 1 but at the level that fits his/her job and abilities.

Each qualification is made up of a number of units. The unit has an EAL evidence route which allows the qualification to be put into a particular context. The NVQ/SVQ is gained when all the evidence routes have been achieved. The individual is certificated for each unit completed. Even if they don't manage to complete the full qualification they still have proof of their ability and could complete the NVQ/SVQ at a later date.



The Benefits of NVQs and SVQs

For Employers, NVQ/SVQs can:

- reduce staff turnover, help to recruit people and to motivate them
- increase productivity and help win contracts
- show customers that you have a workforce competent to industry standards
- help reduce accidents as NVQ/SVQs cover health and safety.

For Individuals, NVQ/SVQs can:

- provide evidence that you can do a particular job or skill
- help with promotion
- gain you a qualification without going back to college or sitting exams
- be completed at a pace to suit you.

EAL – the leading NVQ/SVQ partner

The leading awarding body of engineering NVQ/SVQs, EAL offers qualifications both nationally and internationally. It offers over 60 NVQ/SVQs from Levels 1 to 5 covering a comprehensive range of engineering disciplines as well as management, business administration, distribution and warehousing and aviation to ensure that all employees are competent and adding to the value of the company.

EAL is committed to assisting its customers achieve their training and business goals. Support is readily available to help both centres and candidates whatever the query or problem. A team of easily accessible external verifiers – all professionally qualified and experienced – ensure that your needs and the needs of your business are met.

A commitment to providing industry with the very best qualifications in both quality and service is the prime objective of EAL. Let us help you to both meet and beat your objectives.

What are Performing Engineering Operations?

Traditionally, new entrants into engineering occupations, especially craft and technician, have required basic training for safety and general comprehension of engineering practices. The training was normally carried out off-the-job in a training centre equipped with industrial tools and facilities, and the training was delivered in safe conditions by qualified instructors. Every entrant into engineering needs basic understanding of safety and requirements of personal protection equipment. They should be able to recognise materials and processes, and be able to use industrial standard communication methods, such as engineering drawings.

The qualification, Performing Engineering Operations, can provide this foundation, with flexibility to meet both current engineering practices and ones in the future. It exists at two levels - Level 1 and 2. It can provide the foundation requirement for Advanced Modern Apprenticeship in engineering and the Foundation Modern Apprenticeship in engineering or manufacturing, when appropriate evidence routes are selected from Level 1 and Level 2.

Who would benefit from these qualifications?

The candidate for these qualifications will normally be a new starter to the engineering and manufacturing practices.

They can be:-

- employed, and need the qualification as part of the job requirements,
- be unemployed, or in formal education, and the qualification aids their development, or
- they can achieve it as part of their private personal development on a specific course.



At Level 1

The Performing Engineering Operations Level 1 qualification has been designed to cover those candidates who are either:

- acquiring basic engineering competencies in a sheltered, controlled environment such as schools and colleges, off-the-job training centres, 'access' training providers (for the disabled), 'back to work' training providers, prison services and the armed forces training workshops.
- or
- employed and are carrying out basic engineering tasks which, for whatever reasons, do not fit comfortably within the Performing Manufacturing Operations Level 1 framework.

At Level 2

The Performing Engineering Operations Level 2 award has been designed to cover those candidates who are either:

- acquiring engineering competencies in a sheltered, controlled environment, such as a company training centre, industrial training centre run by a group scheme, technical college, HM armed forces training workshop, prison services, 'access' training providers for the disabled and 'back-to work' training providers.
- or
- employed and are carrying out engineering tasks which, for whatever reasons, do not fit comfortably within the Performing Manufacturing Operations Level 2 or the Engineering Reformation Projects (ERP) framework qualifications.

Additionally, either qualification can be used to achieve recognition for those on short courses, such as motor vehicle maintenance, vehicle restoration, kit car building, model making, clock and watch repair, basic agricultural welding, Computer Aided Design, Computer Aided Manufacture, electronics for beginners, basic mechanical maintenance skills, basic electrical maintenance skills, basic pneumatics and hydraulics maintenance skills, repair of domestic appliances and so on. Appropriate selection from the extensive list of evidence routes to match requirements is all that is necessary.

How is the qualification structured?

At Level 1 the candidate must complete two mandatory units plus two optional units from a choice of sixteen. Additional units can be completed if required. At Level 2 three mandatory units, plus one from Group A (General Support Units) and two from Group B (Optional Units). The candidate can, if required, complete more than the minimum number of units to achieve this award.

How can I start benefiting from this qualification?

If you're an organisation ...

You can gain access to this qualification by either becoming an EAL approved assessment centre or through an EAL approved centre in your region. Our Customer Services department can help you decide which is the right choice for you.

If you're an EAL centre ...

You can access this qualification by adding it to your centre remit and registering candidates in the normal way making sure you state the qualification's NVQ/SVQ number and the chosen evidence routes on the candidate registration form, CRF1.

If you're an individual ...

You will need to speak to your employer about them becoming an EAL approved assessment centre for this qualification or accessing it through your local EAL approved centre.

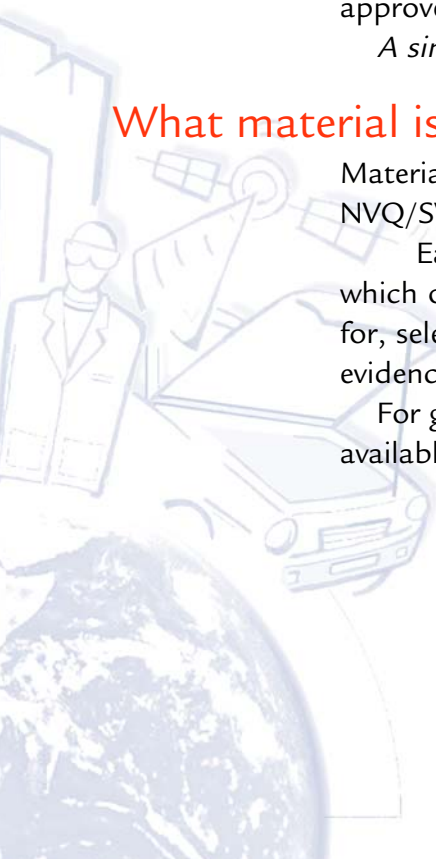
A single charge covers registration, supply of evidence routes and certification.

What material is available to help me with this qualification?

Materials available for the candidate are an EAL Candidate Book, specific to this NVQ/SVQ and the appropriate evidence routes.

Each approved assessment centre will receive a Centre Implementation Manual which outlines the qualification structure, evidence routes, who this NVQ/SVQ is for, selecting the most appropriate evidence routes, the assessment process, types of evidence and where to find it.

For general guidance on assessing NVQ/SVQs an assessor guide (ABG/101) is available to purchase.



PERFORMING ENGINEERING OPERATIONS LEVEL 1

NVQ Level 1 Q1053546

SVQ Level 1 G5L021

Qualification Structure

Mandatory Units (Both must be chosen)

Working safely in an engineering environment	U1053225
Developing yourself and working with other people on engineering activities	U1053243

Optional Units – Two units from a choice of 16

Making components using hand tools and fitting techniques	U1053226
Engineering machining	U1053227
Assembling mechanical components	U1053228
Working with sheet metal	U1053229
Working with thick plate	U1053230
Joining using welding techniques	U1053231
Using oxy-fuel gas cutting equipment	U1053232
Assembling electronic components	U1053233
Wiring electrical circuits	U1053234
Making components from wood based materials	U1053235
Making components by moulding/laying up	U1053236
Making sand moulds and cores for casting	U1053237
Fettling castings	U1053238
Finishing surfaces by applying coatings or treatments	U1053239
Carrying out routine servicing of mechanical equipment and systems	U1053240
Carrying out routine servicing of electrical/electronic equipment and systems	U1053241

Additional Units (if required)

Key Skills or Core Skills at an appropriate level

Evidence Routes and associated elements

Level 1

All of: Mandatory evidence routes and elements

OER/101	<input type="checkbox"/> Working safely in an engineering environment <i>contains the following elements...</i> <ul style="list-style-type: none">· comply with statutory regulations and organisational requirements· follow accident and emergency procedures· apply safe working practices and procedures· recognise and control hazards in the workplace	U1053225
OER/102	<input type="checkbox"/> Developing yourself and working with other people on engineering activities <i>contains the following elements...</i> <ul style="list-style-type: none">· contribute to developing own engineering competence· work effectively with supervisors and close colleagues· establish and maintain working relationships with other staff and contacts in your workplace	U1053243

Optional evidence routes and elements

Any two from a choice of sixteen

OER/103	<input type="checkbox"/> Making components using hand tools and fitting techniques <i>contains the following elements...</i> <ul style="list-style-type: none">· prepare for and complete hand cutting and shaping activities· produce components using hand tools· use bench/pedestal drilling machines	U1053226
OER/104	<input type="checkbox"/> Engineering machining <i>contains the following elements...</i> <ul style="list-style-type: none">· prepare for and complete machining operations· produce machined components safely to the required standard	U1053227
OER/105	<input type="checkbox"/> Assembling mechanical components <i>contains the following elements...</i> <ul style="list-style-type: none">· prepare for and complete assembly operations· producing mechanical assemblies safely and to the required standard	U1053228

Optional evidence routes and elements *continued*

OER/106	<input type="checkbox"/> Working with sheet metal <i>contains the following elements...</i> <ul style="list-style-type: none">· prepare for and complete sheet metalwork activities· produce sheet metal components using hand and machine tools	U1053229
OER/107	<input type="checkbox"/> Working with thick plate <i>contains the following elements...</i> <ul style="list-style-type: none">· prepare for and complete thick platework activities· produce thick platework components	U1053230
OER/108	<input type="checkbox"/> Joining using welding techniques <i>contains the following elements...</i> <ul style="list-style-type: none">· prepare for and complete welding activities· produce welded joints to the required standard	U1053231
OER/109	<input type="checkbox"/> Using Oxy-fuel gas cutting equipment <i>contains the following elements...</i> <ul style="list-style-type: none">· prepare for and complete gas cutting activities· produce cut items to the required standard	U1053232
OER/110	<input type="checkbox"/> Assembling electronic components <i>contains the following elements...</i> <ul style="list-style-type: none">· prepare for and complete electronic assembly activities· assemble electronic components to the required standard	U1053233
OER/111	<input type="checkbox"/> Wiring electrical circuits <i>contains the following elements...</i> <ul style="list-style-type: none">· prepare for and complete electrical wiring activities· wire up electrical components to the required standard	U1053234
OER/112	<input type="checkbox"/> Making components from wood based materials <i>contains the following elements...</i> <ul style="list-style-type: none">· prepare for and complete engineering woodworking activities· produce components from wood based materials	U1053235
OER/113	<input type="checkbox"/> Making components by moulding/laying up <i>contains the following elements...</i> <ul style="list-style-type: none">· prepare for and complete moulding/laying up activities· produce component parts by moulding/laying up	U1053236

OER/114	<input type="checkbox"/> Making sand moulds and cores for casting <i>contains the following elements...</i> <ul style="list-style-type: none"> · prepare for and complete sand moulding and core making activities · produce sand moulds and cores 	U1053237
OER/115	<input type="checkbox"/> Fettling castings <i>contains the following elements...</i> <ul style="list-style-type: none"> · prepare for and complete fettling operations · clean and fettle cast components 	U1053238
OER/116	<input type="checkbox"/> Finishing surfaces by applying coatings or treatments <i>contains the following elements...</i> <ul style="list-style-type: none"> · prepare for and complete surface finishing activities · apply surface finishes to the required standard 	U1053239
OER/117	<input type="checkbox"/> Carrying out routine servicing of mechanical equipment and systems <i>contains the following elements...</i> <ul style="list-style-type: none"> · prepare for and complete routine mechanical servicing operations · service mechanical equipment and systems 	U1053240
OER/118	<input type="checkbox"/> Carrying out routine servicing of electrical/electronic equipment and systems <i>contains the following elements...</i> <ul style="list-style-type: none"> · prepare for and complete routine electrical/electronic servicing operations · service electrical/electronic equipment and systems 	U1053241



PERFORMING ENGINEERING OPERATIONS LEVEL 2

NVQ Level 2 Q1053547

SVQ Level 2 G5L022

Qualification Structure

Mandatory Units – All three must be chosen

Working safely in an engineering environment	U1053225
Developing yourself and working with other people on engineering activities	U1053243
Using and communicating technical information	U1053572

GROUP A – General Support Units

One unit from a choice of five

Identifying and selecting engineering materials	U1053573
Marking out for engineering activities	U1053574
Applying quality control in engineering	U1053575
Erecting and dismantling access structures (up to two metres)	U1053576
Moving loads by slinging and lifting	U1053577



GROUP B – Optional Units

Two units from a choice of 32

Using computer software packages to assist with engineering activities	U1053578
Fitting using hand skills	U1053579
Machining engineering materials	U1053580
Maintaining fluid power systems	U1053581
Maintaining mechanical devices and systems	U1053582
Forming and assembling pipework systems	U1053583
Assembling and testing fluid power systems	U1053584
Installing and dismantling ancillary steel work	U1053585
Producing sheet metal components and assemblies	U1053586
Joining materials by welding	U1053587
Cutting materials using oxy-fuel gas cutting equipment	U1053588
Wiring and testing electrical circuits	U1053589
Building and testing electronic circuits	U1053590
Maintaining and testing instrumentation devices	U1053591
Using 'programmable logic control' based systems	U1053592
Using Computer Numerical Controlled machines	U1053593
Producing engineering drawings using Computer Aided Design	U1053594
Using wood for pattern/model making and other engineering applications	U1053595
Making components from composite materials	U1053596
Preparing sand moulds and cores for casting	U1053597
Producing castings	U1053598
Finishing surfaces by applying coatings or coverings	U1053617
Finishing surfaces by applying treatments	U1053599
Heat treating engineering materials	U1053600
Maintaining electrical equipment/and systems	U1053601
Maintaining electronic equipment/and systems	U1053602
Installing electrical wiring support systems	U1053603
Preparing and using industrial robots	U1053604
Forging engineering materials	U1053605
Producing computer software packages to assist with engineering activities	U1053606
Producing platework components and assemblies	U1053607
Preparing and manoeuvring aircraft on the ground	U1053608

Additional Units (if required)

Key Skills or Core Skills at an appropriate level

Evidence Routes and associated elements

Level 2

All of: Mandatory evidence routes and elements

Three mandatory units

OER/201	<input type="checkbox"/> Working safely in an engineering environment <i>contains the following elements...</i> <ul style="list-style-type: none">· comply with statutory regulations and organisational requirements· follow accident and emergency procedures· apply safe working practices and procedures· recognise and control hazards in the workplace	U1053225
OER/202	<input type="checkbox"/> Developing yourself and working with other people on engineering activities <i>contains the following elements...</i> <ul style="list-style-type: none">· contribute to developing your own engineering competence· work effectively with supervisors and close colleagues· establish and maintain working relationships with other staff and visitors to the workplace	U1053243
OER/203	<input type="checkbox"/> Using and communicating technical information <i>contains the following elements...</i> <ul style="list-style-type: none">· select, and interpret engineering information from various sources· communicate and record technical information	U1053572

General Support evidence routes and elements

One must be chosen

GROUP A

OER/204	<input type="checkbox"/> Identifying and selecting engineering materials <i>contains the following elements...</i> <ul style="list-style-type: none">· identify common engineering materials· select engineering materials that are appropriate to the specification	U1053573
OER/205	<input type="checkbox"/> Marking out for engineering activities <i>contains the following elements...</i> <ul style="list-style-type: none">· work efficiently and effectively at marking out· mark out workpieces to the required specification	U1053574
OER/206	<input type="checkbox"/> Applying quality control in engineering <ul style="list-style-type: none">· understand quality control in engineering· apply quality control procedures	U1053575
OER/207	<input type="checkbox"/> There is no Unit 7 within the Occupational Standards and as a result has not been used within EAL's numbering system	

General Support evidence routes and elements *continued*

OER/208	□ Erecting and dismantling access structures (up to two metres) <i>contains the following elements...</i> <ul style="list-style-type: none">· work efficiently and effectively at erecting and dismantling access structures· erect access structures· dismantle access structures	U1053576
OER/209	□ Moving loads by slinging and lifting <i>contains the following elements...</i> <ul style="list-style-type: none">· work efficiently and effectively at moving loads by slinging and lifting· undertake and control lifting and positioning operations	U1053577

Optional evidence routes and elements

GROUP B

Two must be chosen

OER/210	□ Using computer software packages to assist with engineering activities <i>contains the following elements...</i> <ul style="list-style-type: none">· operate computer and peripheral hardware· create and maintain directories and files· access and use software packages	U1053578
OER/211	□ Fitting using hand skills <i>contains the following elements...</i> <ul style="list-style-type: none">· work efficiently and effectively at fitting using hand skills· produce components to the required specification using hand tools· use bench/pedestal drilling and grinding machines· produce mechanical assemblies safely to the required specification· check the completed work conforms to specification	U1053579
OER/212	□ Machining engineering materials <i>contains the following elements...</i> <ul style="list-style-type: none">· work efficiently and effectively at machining· machine safely to the required specification· check the completed workpiece conforms to specification	U1053580
OER/213	□ Maintaining fluid power systems <i>contains the following elements...</i> <ul style="list-style-type: none">· work efficiently and effectively at maintaining fluid power systems· apply fault finding techniques· repair faults in fluid power systems· test completed system conforms to specification	U1053581

Optional evidence routes and elements *continued*

OER/214	<p>□ Maintaining mechanical devices and systems <i>contains the following elements...</i></p> <ul style="list-style-type: none">· work efficiently and effectively at maintaining mechanical devices and systems· apply fault finding techniques· dismantle mechanical devices/systems· rebuild mechanical devices/systems to the required specification· carry out routine servicing and testing on mechanical equipment and systems	U1053582
OER/215	<p>□ Forming and assembling pipework systems <i>contains the following elements...</i></p> <ul style="list-style-type: none">· work efficiently and effectively at forming and assembling pipework systems· assemble pipework components to produce simple systems· test pipework systems	U1053583
OER/216	<p>□ Assembling and testing fluid power systems <i>contains the following elements...</i></p> <ul style="list-style-type: none">· work efficiently and effectively at assembling and testing fluid power systems· assemble components to produce a simple circuit· pressurise and test fluid power systems	U1053584
OER/217	<p>□ Installing and dismantling ancillary steel work <i>contains the following elements...</i></p> <ul style="list-style-type: none">· work efficiently and effectively at installing and dismantling ancillary steel work· install ancillary steel work· dismantle ancillary steel work	U1053585
OER/218	<p>□ Producing sheet metal components and assemblies <i>contains the following elements...</i></p> <ul style="list-style-type: none">· work efficiently and effectively at producing sheet metal components and assemblies· produce component parts using hand and portable power tools· produce component parts using machines· assemble sheet metal components	U1053586
OER/219	<p>□ Joining materials by welding <i>contains the following elements...</i></p> <ul style="list-style-type: none">· work efficiently and effectively at joining materials by welding· produce welded joints to specification· check the finished welds conform to specification	U1053587

OER/220	<p>□ Cutting materials using Oxy-fuel gas cutting equipment <i>contains the following elements...</i></p> <ul style="list-style-type: none"> · work efficiently and effectively at gas cutting · produce cut items using gas cutting equipment 	U1053588
OER/221	<p>□ Wiring and testing electrical circuits <i>contains the following elements...</i></p> <ul style="list-style-type: none"> · work efficiently and effectively at electrical wiring and testing · wire up electrical circuits safely and to the required specification · set up and test simple electrical circuits 	U1053589
OER/222	<p>□ Building and testing electronic circuits <i>contains the following elements...</i></p> <ul style="list-style-type: none"> · work efficiently and effectively at electronic assembly, wiring and testing · assemble electronic components to produce functional circuits · set up and test electronic circuits 	U1053590
OER/223	<p>□ Maintaining and testing instrumentation devices <i>contains the following elements...</i></p> <ul style="list-style-type: none"> · work efficiently and effectively at maintaining and testing instrumentation devices · apply fault finding techniques · remove and replace sensing elements and stand alone instruments · set up and test sensing elements and their associated instruments 	U1053591
OER/224	<p>□ Using 'programmable logic control' based systems <i>contains the following elements...</i></p> <ul style="list-style-type: none"> · work efficiently and effectively at PLC installation and programming · install and connect up a PLC controlled system · develop simple PLC programmes · input and prove PLC programme integrity 	U1053592
OER/225	<p>□ Using computer numerical controlled machines <i>contains the following elements...</i></p> <ul style="list-style-type: none"> · work efficiently and effectively at CNC machining · develop component programs for CNC machines · input and prove CNC component programs · machine safely to the required specification using CNC machines · check the completed work conforms to specification 	U1053593
OER/226	<p>□ Producing engineering drawings using computer aided design <i>contains the following elements...</i></p> <ul style="list-style-type: none"> · operate computer and peripheral hardware · produce drawings using computer aided drawing software 	U1053594



Optional evidence routes and elements *continued*

OER/227	<p>□ Using wood for pattern/model making and other engineering applications <i>contains the following elements...</i></p> <ul style="list-style-type: none">· work efficiently and effectively at using wood based materials· produce component parts using hand and portable power tools· produce component parts using machines· assemble and finish wood work components· check the completed work conforms to specification	U1053595
OER/228	<p>□ Making components from composite materials <i>contains the following elements...</i></p> <ul style="list-style-type: none">· work efficiently and effectively at making components from composite materials· produce component parts from composite materials using hand techniques· check the completed work conforms to specification	U1053596
OER/229	<p>□ Preparing sand moulds and cores for casting <i>contains the following elements...</i></p> <ul style="list-style-type: none">· work efficiently and effectively at mould and core making· prepare sand and test its properties· produce sand moulds· produce sand cores· prepare moulds for casting	U1053597
OER/230	<p>□ Producing castings <i>contains the following elements...</i></p> <ul style="list-style-type: none">· work efficiently and effectively at producing castings· produce and prepare molten materials· produce component parts by casting· clean and fettle cast components	U1053598
OER/231	<p>□ Finishing surfaces by applying coatings or coverings <i>contains the following elements...</i></p> <ul style="list-style-type: none">· work efficiently and effectively at finishing surfaces by coating or covering· apply coatings or coverings to the required specification	U1053617
OER/232	<p>□ Finishing surfaces by applying treatments <i>contains the following elements...</i></p> <ul style="list-style-type: none">· work efficiently and effectively at surface finishing by applying treatments· apply surface finishes to the required specification	U1053599
OER/233	<p>□ Heat treating engineering materials <i>contains the following elements...</i></p> <ul style="list-style-type: none">· work efficiently and effectively at heat treating engineering materials· carry out heat treatment processes	U1053600

OER/234	<p>□ Maintaining electrical equipment and systems <i>contains the following elements...</i></p> <ul style="list-style-type: none"> • work efficiently and effectively at maintaining electrical equipment and systems • use electrical test equipment • apply fault finding techniques • repair faults in electrical equipment and systems 	U1053601
OER/235	<p>□ Maintaining electronic equipment and systems <i>contains the following elements...</i></p> <ul style="list-style-type: none"> • work efficiently and effectively at maintaining electronic equipment and systems • use electronic test equipment • apply fault finding techniques • repair faults in electronic circuits 	U1053602
OER/236	<p>□ Installing electrical wiring support systems <i>contains the following elements...</i></p> <ul style="list-style-type: none"> • work efficiently and effectively at installing electrical wiring support systems • prepare assemblies for electrical wiring support systems • install simple electrical wiring support systems 	U1053603
OER/237	<p>□ Preparing and using industrial robots <i>contains the following elements...</i></p> <ul style="list-style-type: none"> • work efficiently and effectively at preparing and using industrial robots • operate industrial robot controls • mount work holding devices and tooling • check that the robot program is carrying out the tasks correctly 	U1053604
OER/238	<p>□ Hand forging engineering materials <i>contains the following elements...</i></p> <ul style="list-style-type: none"> • work efficiently and effectively at hand forging engineering materials • carry out hand forging operations 	U1053605
OER/239	<p>□ Producing computer software to assist with engineering activities <i>contains the following elements...</i></p> <ul style="list-style-type: none"> • work efficiently and effectively at producing software packages • design and create software modules • carry out tests on created modules 	U1053606
OER/240	<p>□ Producing platework components and assemblies <i>contains the following elements...</i></p> <ul style="list-style-type: none"> • work efficiently and effectively at producing platework components and assemblies • cut and form component parts to specification • assemble platework components 	U1053607
OER/241	<p>□ Preparing and manoeuvring aircraft on the ground <i>contains the following elements...</i></p> <ul style="list-style-type: none"> • work efficiently and effectively at handling and preparing aircraft for servicing operations • prepare aircraft for ground movement • move aircraft to their designated locations 	U1053608







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