

Qualification details

C&G No: 2251-21
 Complex Performing Engineering Operations
 Scheme Engineering Practices
 NVQ Level 2

Section A Mandatory Units (Candidates must complete all mandatory units)

C&G No.	QCA ref No.	Title
301	D/103/8765	Working safely in an engineering environment
302	H/103/8766	Working effectively and efficiently in engineering
303	K/103/8767	Using and communicating technical information

Section B Optional Units (Candidates must complete 3 from the following available units)

Note: Candidates must ONLY select One CAD unit from 404, 432 or 461

C&G No.	QCA ref No.	Title
404	D/103/8667	Producing mechanical engineering drawing using a CAD system
405	H/103/8668	Producing components using hand fitting techniques
406	D/103/8670	Producing mechanical assemblies
407	H/103/8671	Forming and assembling pipework systems
408	K/103/8672	Carrying out aircraft detail fitting activities
409	M/103/8673	Installing aircraft mechanical fasteners
410	T/103/8674	Producing aircraft detail assemblies
411	A/103/8675	Preparing and using lathes for turning operations
412	F/103/8676	Preparing and using milling machines
413	I/103/8677	Preparing and using grinding machines
414	L/103/8678	Preparing and providing CNC machine tools programs
415	R/103/8679	Preparing and using CNC turning machines
416	J/103/8680	Preparing and using CNC milling machines
417	L/103/8681	Preparing and using CNC machining centres
418	R/103/8682	Preparing and using industrial robots
419	Y/103/8683	Maintaining mechanical devices and equipment
420	D/103/8684	Assembling and testing fluid power systems
421	H/103/8685	Maintaining fluid power equipment
422	K/103/8686	Producing sheet metal components and assemblies
423	K/103/8687	Producing platework components and assemblies
424	T/103/8688	Cutting and shaping material using thermal cutting equipment
425	A/103/8689	Preparing and providing CNC fabrication machine tool programs
426	M/103/8690	Preparing and using CNC fabrication machinery
427	T/103/8691	Preparing and using manual metal arc welding equipment
428	A/103/8692	Preparing and using manual TIG or plasma-arc welding equipment
429	F/103/8693	Preparing and using manual MIG, MAG and other continuous wire welding equipment
430	J/103/8694	Preparing and using manual gas welding equipment
431	L/103/8695	Preparing and using manual flame brazing and bronze welding equipment
432	R/103/8696	Producing electrical or electronic engineering drawing using a CAD system
433	Y/103/8697	Wiring and testing electrical equipment and circuits
434	D/103/8698	Forming and assembling electrical cable enclosure and support systems
435	H/103/8699	Assembling, wiring and testing electrical panels/components mounted in enclosures



Section B Optional Units (Continued from previous page)

C&G No.	QCA ref No.	Title
436	L/103/8700	Assembling and testing electronic circuits
437	R/103/8701	Maintaining electrical equipment / systems
438	Y/103/8702	Maintaining electronic equipment / systems
439	D/103/8703	Maintaining and testing process instrumentation and control devices
440	H/103/8704	Wiring and testing programmable controller based systems
441	K/103/8705	Using wood for pattern, modelmaking and other engineering applications
442	M/103/8706	Assembling pattern, model and engineering woodwork components
443	T/103/8707	Producing composite moulding using wet lay-up techniques
444	A/103/8708	Producing composite mouldings using pre-preg laminating techniques
445	F/103/8709	Producing composite mouldings using resin infusion techniques
446	T/103/8710	Producing composite assemblies
447	A/103/8711	Producing components by rapid prototyping
448	F/103/8712	Producing and preparing sand moulds and cores for casting
449	J/103/8713	Producing and preparing molten materials for casting
450	L/103/8714	Producing cast components by manual means
451	L/103/8715	Fettling, finishing and checking cast components
452	Y/103/8716	Finishing surfaces by applying coatings or coverings
453	D/103/8717	Finishing surfaces by applying treatments
454	H/103/8718	Carrying out heat treatment of engineering materials
455	K/103/8719	Carrying hand forging of engineering materials
456	D/103/8720	Stripping and rebuilding motorsport vehicles (pre-competition)
457	H/103/8721	Inspecting a motorsport vehicle during a competition
458	K/103/8722	Diagnosing and rectifying faults in motorsport vehicle systems (during competition)
459	M/103/8723	Carrying out maintenance activities on motorsport vehicle electrical equipment
460	T/103/8724	Stripping and rebuilding motorsport engines (pre-competition)
461	A/103/8725	Producing CAD models (drawings) using a CAD system

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