

Mechanical Manufacturing Engineering Level 3

NVQ 100/2951/5

SVQ G74Y23

The candidate is required to complete the three mandatory assessment routes, plus the required number of assessment routes from their choice of pathway.

Mandatory Assessment Routes

EAL Assessment

Route Code

QCA Code

MME3/001	■ Complying with Statutory Regulations & Organisational Safety Requirements	Y/101/8210
MME3/002	■ Using and Interpreting Engineering Drawings and Documents	D/101/8211
MME3/003	■ Working Efficiently and Effectively in Engineering	H/101/8212

Pathway choices overleaf.



Pathway MMA: Machining

Scheme Number/Pathway: NVQ: 100/2951/5MMA SVQ: G74Y23MMA

All three mandatory assessment routes plus one pair of the following assessment routes:

EAL Assessment Route Code		QCA Code
MME3/004	■ Setting Centre Lathes for Production	K/101/8213
MME3/005	■ Machining Components Using Centre Lathes	M/101/8214
MME3/006	■ Setting Turret Lathes for Production	T/101/8215
MME3/007	■ Machining Components Using Turret Lathes	A/101/8216
MME3/008	■ Setting Milling Machines for Production	F/101/8217
MME3/009	■ Machining Components Using Milling Machines	J/101/8218
MME3/010	■ Setting Shaping, Planing or Slotting Machines for Production	L/101/8219
MME3/011	■ Machining Components Using Shaping, Planing or Slotting Machines	F/101/8220
MME3/012	■ Setting Gear Cutting Machines for Production	J/101/8221
MME3/013	■ Machining Components Using Gear Cutting Machines	L/101/8222
MME3/014	■ Setting Gear Grinding Machines for Production	R/101/8223
MME3/015	■ Machining Components Using Gear Grinding Machines	Y/101/8224
MME3/016	■ Setting Horizontal Boring Machines for Production	D/101/8225
MME3/017	■ Machining Components Using Horizontal Boring Machines	H/101/8226

MME3/018	■ Setting Vertical Boring Machines for Production	K/101/8227
MME3/019	■ Machining Components Using Vertical Boring Machines	M/101/8228
MME3/020	■ Setting Electro Discharge Machines for Production	T/101/8229
MME3/021	■ Machining Components Using Electro Discharge Machines	K/101/8230
MME3/022	■ Setting Grinding Machines for Production	M/101/8231
MME3/023	■ Machining Components Using Grinding Machines	T/101/8232
MME3/024	■ Setting Honing and Lapping Machines for Production	A/101/8233
MME3/025	■ Machining Components Using Honing and Lapping Machines	F/101/8234
MME3/026	■ Setting Broaching Machines for Production	J/101/8235
MME3/027	■ Machining Components Using Broaching Machines	L/101/8236
MME3/028	■ Setting Metal Spinning Machines for Production	R/101/8237
MME3/029	■ Producing Components Using Metal Spinning Machines	Y/101/8238

Pathway MMB: NC/CNC Machining

Scheme Number/Pathway: NVQ: 100/2951/5MMB SVQ: G74Y23MMB

All three mandatory assessment routes plus one assessment route from Group A, plus one pair of assessment routes from Group B:

Group A

EAL Assessment Route Code		QCA Code
MME3/030	■ Loading and Proving NC/CNC Machine Tool Programs	D/101/8239
MME3/031	■ Carrying Out CNC Machine Tools Programming	R/101/8240

Plus one pair of assessment routes from Group B:

Group B

EAL Assessment Route Code		QCA Code
MME3/032	■ Setting NC/CNC Turning Machines for Production	Y/101/8241
MME3/033	■ Machining Components Using NC/CNC Turning Machines	D/101/8242
MME3/034	■ Setting NC/CNC Milling Machines for Production	H/101/8243
MME3/035	■ Machining Components Using NC/CNC Milling Machines	K/101/8244
MME3/036	■ Setting NC/CNC Grinding Machines for Production	M/101/8245
MME3/037	■ Machining Components Using NC/CNC Grinding Machines	T/101/8246
MME3/038	■ Setting NC/CNC Punching Machines for Production	A/101/8247
MME3/039	■ Machining Components Using NC/CNC Punching Machines	F/101/8248

MME3/040	■ Setting NC/CNC Laser Profiling Machines for Production	J/101/8249
MME3/041	■ Machining Components Using NC/CNC Laser Profiling Machines	A/101/8250
MME3/042	■ Setting NC/CNC Electro Discharge Machines for Production	F/101/8251
MME3/043	■ Machining Components Using NC/CNC Electro Discharge Machines	J/101/8252
MME3/044	■ Setting NC/CNC Vertical Boring Machines for Production	L/101/8253
MME3/045	■ Machining Components Using NC/CNC Vertical Boring Machines	R/101/8254
MME3/046	■ Setting NC/CNC Horizontal Boring Machines for Production	Y/101/8255
MME3/047	■ Machining Components Using NC/CNC Horizontal Boring Machines	D/101/8256
MME3/048	■ Setting NC/CNC Gear Cutting Machines for Production	H/101/8257
MME3/049	■ Machining Components Using NC/CNC Gear Cutting Machines	K/101/8258
MME3/050	■ Setting NC/CNC Machining Centres for Production	M/101/8259
MME3/051	■ Machining Components Using NC/CNC Machining Centres	H/101/8260

Pathway MMC: Machine Tool Setting

Scheme Number/Pathway: NVQ: 100/2951/5MMC SVQ: G74Y23MMC

All three mandatory assessment routes plus the assessment route in Group A, plus one assessment route from Group B:

Group A

EAL Assessment Route Code	QCA Code
MME3/052 ■ Handing Over Machine Tools to Production Operators	K/101/8261

Plus one assessment route from Group B.

Group B

EAL Assessment Route Code	QCA Code
MME3/008 ■ Setting Milling Machines for Production	F/101/8217
MME3/010 ■ Setting Shaping, Planing or Slotting Machines for Production	L/101/8219
MME3/012 ■ Setting Gear Cutting Machines for Production	J/101/8221
MME3/014 ■ Setting Gear Grinding Machines for Production	R/101/8223
MME3/020 ■ Setting Electro Discharge Machines for Production	T/101/8229
MME3/022 ■ Setting Grinding Machines for Production	M/101/8231
MME3/024 ■ Setting Honing and Lapping Machines for Production	A/101/8233
MME3/026 ■ Setting Broaching Machines for Production	J/101/8235
MME3/032 ■ Setting NC/CNC Turning Machines for Production	Y/101/8241
MME3/034 ■ Setting NC/CNC Milling Machines for Production	H/101/8243
MME3/036 ■ Setting NC/CNC Grinding Machines for Production	M/101/8245
MME3/038 ■ Setting NC/CNC Punching Machines for Production	A/101/8247

MME3/040	■ Setting NC/CNC Laser Profiling Machines for Production	J/101/8249
MME3/042	■ Setting NC/CNC Electro Discharge Machines for Production	F/101/8251
MME3/048	■ Setting NC/CNC Gear Cutting Machines for Production	H/101/8257
MME3/050	■ Setting NC/CNC Machining Centres for Production	M/101/8259
MME3/053	■ Setting Capstan and Turret Lathes for Production Operations	M/101/8262
MME3/054	■ Setting Single-Spindle Automatic Turning Machines for Production	T/101/8263
MME3/055	■ Setting Multi-Spindle Automatic Turning Machines for Production	A/101/8264
MME3/056	■ Setting Single and Multi-Spindle Drilling Machines for Production	F/101/8265
MME3/057	■ Setting Tool and Cutter Grinding Machines for Production	J/101/8266
MME3/058	■ Setting Special-Purpose Machines for Production	L/101/8267
MME3/059	■ Setting Power Presses for Production	R/101/8268

Pathway MMD: Fitting and Assembly

Scheme Number/Pathway: NVQ: 100/2951/5MMD SVQ: G74Y23MMD

All three mandatory assessment routes plus three assessment routes from the choice below:

EAL Assessment Route Code		QCA Code
MME3/060	■ Producing Components Using Hand Fitting Techniques	Y/101/8269
MME3/061	■ Assembling Mechanical Products	L/101/8270
MME3/062	■ Producing Components by Manual Machining	R/101/8271
MME3/063	■ Fitting Fluid Power Components to Mechanical Assemblies	Y/101/8272
MME3/064	■ Fitting Pipework Systems to Mechanical Assemblies	D/101/8273
MME3/065	■ Fitting Electrical/Electronic Components to Mechanical Assemblies	H/101/8274
MME3/066	■ Producing Power Turbine Combustion Assemblies	K/101/8275
MME3/067	■ Producing Power Turbine Compressor Assemblies	M/101/8276
MME3/068	■ Producing Turbine Assemblies	T/101/8277
MME3/069	■ Producing Power Turbine Gearbox Assemblies	A/101/8278
MME3/070	■ Producing Power Turbine Major Assemblies	F/101/8279
MME3/071	■ Producing Piston Engine Assemblies	T/101/8280
MME3/072	■ Repairing and Modifying Mechanical Assemblies	A/101/8281
MME3/073	■ Checking Completed Assemblies Comply with Specification	F/101/8282

Pathway MME: Pipe Fitting and Assembly

Scheme Number/Pathway: NVQ: 100/2951/5MME SVQ: G74Y23MME

All three mandatory assessment routes plus one assessment route from Group A, plus two assessment routes from Group B:

Group A

EAL Assessment Route Code		QCA Code
MME3/074	■ Pipe Bending and Forming by Hand Methods	J/101/8283
MME3/075	■ Pipe Bending and Forming Using Bending Machines	L/101/8284

Plus two assessment routes from Group B:

Group B

EAL Assessment Route Code		QCA Code
MME3/076	■ Assembling Screwed Pipework	R/101/8285
MME3/077	■ Assembling Small Bore Non-Ferrous Pipework	Y/101/8286
MME3/078	■ Assembling Non-Metallic Pipework	D/101/8287
MME3/079	■ Preparing and Testing Pipework Systems	H/101/8288
MME3/080	■ Producing Socket and Flange Fillet Welded Joints in Pipe Using a Manual Welding Process	K/101/8289

Pathway MMF: Composite Manufacture/Polymer Engineering

Scheme Number/Pathway: NVQ: 100/2951/5MMF SVQ: G74Y23MMF

All three mandatory assessment routes plus one assessment route from Group A, plus one different assessment route from Group B:

Group A

EAL Assessment Route Code		QCA Code
MME3/081	■ Producing Composite Mouldings Using Pre-Preg Laminating Techniques	D/101/8290
MME3/082	■ Producing Composite Mouldings Using Wet Lay-up Techniques	H/101/8291
MME3/083	■ Producing Composite Assemblies	K/101/8292

Plus one different assessment route from Group B:

Group B

EAL Assessment Route Code		QCA Code
MME3/081	■ Producing Composite Mouldings Using Pre-Preg Laminating Techniques	D/101/8290
MME3/082	■ Producing Composite Mouldings Using Wet Lay-up Techniques	H/101/8291
MME3/083	■ Producing Composite Assemblies	K/101/8292
MME3/084	■ Bonding Composite Mouldings	M/101/8293
MME3/085	■ Repairing Composite Mouldings	T/101/8294
MME3/086	■ Applying Finishes to Composite Mouldings	A/101/8295
MME3/087	■ Trimming Composite Mouldings Using Hand Tools	F/101/8296
MME3/088	■ Identifying Defects in Composite Mouldings	J/101/8297

Pathway MMG: Optical Engineering

Scheme Number/Pathway: NVQ: 100/2951/5MMG SVQ: G74Y23MMG

All three mandatory assessment routes plus the assessment route in Group A, plus four assessment routes from Group B:

Group A

EAL Assessment Route Code		QCA Code
MME3/081	■ Inspecting Optical Components	L/101/8298

Plus four assessment routes from Group B:

Group B

EAL Assessment Route Code		QCA Code
MME3/090	■ Machining Infra-Red/Special Material Lenses	R/101/8299
MME3/091	■ Machining Optical Glass Lenses	A/101/8300
MME3/092	■ Machining Optical Prism and Flat Components	F/101/8301
MME3/093	■ Setting CNC Aspheric Glass and Diamond Turning Machines	J/101/8302
MME3/094	■ Machining Components using CNC Aspheric Glass and Diamond Turning Machines	L/101/8303
MME3/095	■ Setting NC/CNC Optical Grinding and Polishing Machines for Production Operations	R/101/8304
MME3/096	■ Machining Components using NC/CNC Optical Grinding and Polishing Machines	Y/101/8305
MME3/097	■ Machining Optical Cylinders and Domes	D/101/8306
MME3/098	■ Vacuum Coating Optical Materials	H/101/8307
MME3/099	■ Machining Optical Plastic Components	K/101/8308