

DUTY D**Tasks****Mill parts**

- D.1 Fly cut material
- D.2 Shell cut material
- D.3 Rough mill material
- D.4 Slab mill material
- D.5 Finish mill material
- D.6 Bore material
- D.7 Broach Material
- D.8 Drill material
- D.9 Tap material
- D.10 Cut a gear
- D.11 Cut keyway in material
- D.12 Cut a splined shaft
- D.13 Ream holes in material
- D.14 Counter bore /counter sink material

DUTY E**Tasks****Grind parts**

- E.1 Grind flat surfaces
- E.2 Grind round parts
- E.3 Grind threads
- E.4 Grind centerless parts
- E.5 Jig grind parts
- E.6 Grind flat surface
- E.7 Grind cylindrical surface
- E.8 Grind parts in a lathe

DUTY F**Tasks****Grind cutting tools**

- F.1 Sharpen drill parts
- F.2 Sharpen tool bits
- F.3 Sharpen end mills
- F.4 Sharpen counter sinks and reamers
- F.5 Sharpen special cutters
- F.6 Sharpen hand tools

BARBADOS VOCATIONAL TRAINING BOARD

“Lawrence Green House”

Culloden Road

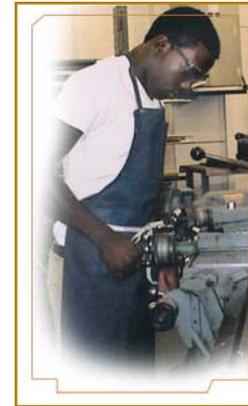
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**BARBADOS
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SKILLS TRAINING PROGRAMME



MACHINIST FITTER Metal Machining and Fitting

**Machinist Fitter
Metal Machining and Fitting**

Machinist Fitters set up and operate a variety of machine tools to produce precision parts and instruments. This career path includes precision instrument makers who fabricate, modify, or repair mechanical instruments. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, shop mathematics, metal properties, layout and machining procedures.

This programme is nine (9) months in duration.

On completion of the course, the trainee will be able to:

- Read and interpret engineering drawings as a prerequisite to laying out, cutting and shaping metals to manufacture components or products.
- Set up machines to cut, shape, drill, bore and grind metals into parts or products to precise dimensions.
- Operate lathes, milling, grinding, pressing and sawing machines to manufacture metal components or products to precision.

OCCUPATIONAL /SKILLS PROFILE—MACHINIST FITTER

DUTY A Tasks	Perform bench work
	A.1 Layout work
	A.2 Saw round and flat bar
	A.3 File surfaces
	A.4 Thread round stock
	A.5 Tap holes
	A.6 Rivet metal plates
	A.7 Ream holes
	A.8 Counter bore holes
	A.9 Counter sink holes
	A.10 Drill holes
	A.11 Cut grooves
	A.12 Scrape surface

**DUTY B
Tasks**

Turn parts on a lathe

- B.1 Face cut material
- B.2 Drill material
- B.3 Turn down material
- B.4 Turn off center material
- B.5 Cut taper on material
- B.6 Knur material
- B.7 Thread material
- B.8 Turn form on material
- B.9 Counter bore material
- B.10 Bore material
- B.11 Ream material
- B.12 Tap material
- B.13 Polish material
- B.14 Part off material
- B.15 File material
- B.16 Grind material

**DUTY C
Tasks**

Shape parts on a shaper

- C.1 Set shaper length and stroke
- C.2 Align shaper vise and parallel and 90°
- C.3 Shape block
- C.4 Shape flat surface
- C.5 Shape vertical surface
- C.6 Shape dove tail
- C.7 Shape keyway
- C.8 Shape spline
- C.9 Shape gear tooth
- C.10 Shape grooves
- C.11 Shape slots