

SELF - ASSESSMENT GUIDE

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|---|--------------------------------|-----------|--|
| Qualification: | MACHINING NC III | | |
| Project : | SHAFT WITH HELICAL GEAR | | |
| Instruction: <ul style="list-style-type: none"> • Read each of the questions in the left-hand column of the chart. • Place a check in the appropriate box opposite each question to indicate your answer. | | | |
| Can I? | YES | NO | |
| • Determine job requirement (A written work plan listing the operation is required) | | | |
| • Perform bench work | | | |
| • Perform turning operation | | | |
| ○ Turn diameters using steady rest | | | |
| ○ Turn eccentric diameters | | | |
| ○ Perform deep hole drilling and boring | | | |
| ○ Turn internal shape and surface (cylinder, chamfer, groove, radii) | | | |
| ○ Turn internal tapers | | | |
| ○ Cut internal threads: square, ACME, and multi-start | | | |
| ○ Bore hole on stationary workpiece | | | |
| ○ Part off | | | |
| • Perform milling operation | | | |
| ○ Mill helical gears | | | |
| ○ Mill bevel gears | | | |
| ○ Mill ratchet ,gears, sprockets using differential indexing | | | |
| ○ Perform spiral milling | | | |
| ○ Mills feature from established locations | | | |

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|--|--|-------|
| • Check / Measure workpiece Using limit gages; comparators; Gage block; Gear tooth vernier caliper; micrometers; Balls; Precision rollers | | |
| • Perform grinding operation | | |
| ○ Select grinding wheels and accessories | | |
| ○ Grinding parallel and square surfaces | | |
| ○ Grinding to an angle surface | | |
| ○ Grinding to radii | | |
| ○ Grinding to cut off parts | | |
| • Measures dimensions | | |
| • Check surface texture | | |
| <p>I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.</p> | | |
| Candidate's Name & signature: | | Date: |