

SELF ASSESSMENT GUIDE

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| QUALIFICATION: | CNC LATHE MACHINE OPERATION NC III | | |
| Title of PBA: | Fabricate Breech Screw | | |
| Units of Competencies Covered: | <ul style="list-style-type: none"> • Write Advanced CNC Lathe Machine Program • Set-up machine with Multiple axis, Workpiece and Cutting Tools • Perform Advanced CNC Lathe Machine Operations | | |
| <p>Instruction</p> <ul style="list-style-type: none"> • Read each of the questions in the left-hand column of the chart. • Place a check on each question to indicate your answers. | | | |
| Can I? | YES | NO | |
| <ul style="list-style-type: none"> • Determines job requirements* | | | |
| ○ Interprets drawings | | | |
| ○ Determines sequence of operation | | | |
| ○ Selects cutting tools | | | |
| ○ Calculates cutting speed and feed rate | | | |
| ○ Determines the material to be used | | | |
| <ul style="list-style-type: none"> • Writes basic CNC lathe machine program* | | | |
| ○ Calculates coordinates | | | |
| ○ Writes program in standard CNC lathe machine operation code format | | | |
| <ul style="list-style-type: none"> • Edits basic CNC lathe machine program* | | | |
| ○ Simulates and edits program | | | |
| ○ Saves program | | | |
| ○ Downloads program | | | |

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| <ul style="list-style-type: none"> • Sets-up machine with multiple axis, cutting tools and driven tools* | | |
| ○ | Checks oil and coolant | |
| ○ | Checks air and hydraulic pressure | |
| ○ | Checks machine zero point | |
| ○ | Sets cutting tools | |
| ○ | Tightens work holding and clamping devices | |
| ○ | Performs tool set-up | |
| <ul style="list-style-type: none"> • Downloads / inputs program* | | |
| ○ | Downloads/ inputs program | X |
| ○ | Simulates program | X |
| ○ | Sets workpiece zero point | X |
| <ul style="list-style-type: none"> • Sets-up workpiece* | | |
| ○ | Mounts and centers workpiece on clamping device | X |
| ○ | Observes occupational health and safety (OHS) | X |
| <ul style="list-style-type: none"> • Dry-runs program* | | |
| ○ | Performs dry-run with desired tool path movement | X |
| ○ | Edits program to required tool path movement | X |
| <ul style="list-style-type: none"> • Performs trial cut on workpiece* | | |
| ○ | Machines workpiece as programmed | X |
| ○ | Checks and measures workpiece dimensions | X |
| ○ | Edits program and tool parameters are corrected/adjusted | X |

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| <ul style="list-style-type: none"> • Turns workpiece* | | |
| <input type="radio"/> Mounts workpiece | X | X |
| <input type="radio"/> Performs advanced CNC lathe machine operations | X | X |
| <input type="radio"/> Performs corrective measures/ adjustments | X | X |
| <input type="radio"/> Observes safety procedures | X | X |
| <input type="radio"/> Uses personal protective devices | X | X |
| <ul style="list-style-type: none"> • Checks and measures workpiece* | | |
| <input type="radio"/> Checks and measures workpiece | X | X |
| <input type="radio"/> Marks, records and reports defective workpieces | X | X |
| <p>I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purpose and can only be assessed by concerned assessment personnel and may manager/supervisor</p> | | |
| Candidate's name: | Date: | |
| Assessor's name : | Date: | |

NOTE: *Critical aspects of competency