

OJT CORE COMPETENCIES

CNC Machine Operator

TERM OF APPRENTICESHIP

The term of the apprenticeship is 1 year.

APPRENTICESHIP APPROACH

Time-based

Competency-based

Hybrid

Apprenticeships may be time-based, requiring a set number of OJT (on-the-job training) and RTI (related technical instruction) hours; competency-based, allowing completion once all skills are mastered; or hybrid, blending both time and competency requirements.

SCHEDULE AND CHECKLIST

Essential Job Categories	Competencies
Safety	<ul style="list-style-type: none">• Understands the use of appropriate PPE• Understands how to identify, handle, store and dispose of hazardous materials• Understands appropriate lock-out/tag-out procedures• Understands injury reporting procedures• Maintains a clean and organized workspace• Employer specific competency
Quality Assurance	<ul style="list-style-type: none">• Understands shop math• Understands how to read blueprints• Understands how to use various measuring tools and techniques• Able to identify defects• Understands how to determine root cause• Employer specific competency
Machine Components	<ul style="list-style-type: none">• Understands how to interpret and utilize control panel• Is able to utilize the table of the machine appropriately• Understands the appropriate use of various cutting tools• Understands various axes and how they function• Understands the purpose and actions of the spindle• Understands appropriate use of coolants and lubricants• Employer specific competency
Machine Operations	<ul style="list-style-type: none">• Understands the characteristics and uses of drilling• Understands the characteristics and uses of milling• Understands the characteristics and uses of turning• Understands the characteristics and uses of broaching, sawing, grinding, honing, and lapping• Understands sequencing• Employer specific competency

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Essential Job Categories	Competencies
Preventative Maintenance	<ul style="list-style-type: none">• Understands how to appropriately utilize coolants and lubricants• Understands how to check and change fluids and filters• Understands how to collect and dispose of waste products• Understands how to inspect and evaluate condition of tooling• Employer specific competency
Benchwork	<ul style="list-style-type: none">• Understands how to plan for the job• Understands appropriate use of hand tools• Understands how to select and change appropriate tooling• Employer specific competency
Troubleshooting	<ul style="list-style-type: none">• Understands alarms and codes• Understands how to assess root cause• Employer specific competency



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