



Manufacturing Processes

Youth Apprenticeship

MANUFACTURING PROCESSES

Manufacturing Process youth apprentices work with tools, equipment, and processes in various manufacturing industries. Apprentices must adhere to industry safety and security standards.

Length of Apprenticeship: One or two years

OCCUPATIONAL COMPETENCIES

Manufacturing Processes youth apprentice must complete **a total of 17** competencies during year 1. All **7** Manufacturing Fundamentals Competencies must be completed. No substitutions to this list. **Ten** Manufacturing Processes competencies must be completed. Employers can substitute up to **1** Manufacturing Processes competency with another occupationally appropriate skill. Substitutions must be added to the competency list for assessment. Note that where necessary, skills can be simulated.

NOTE: Students completing a 2-year manufacturing processes youth apprenticeship must select a minimum of 1 different manufacturing process than the first year and indicate it in the appropriate place on this guide.

Document the Manufacturing Process for each year in this guide.

***Students who completed a previous Manufacturing YA program do *not* need to repeat the Manufacturing Fundamentals Competencies.

Manufacturing Fundamentals Competencies	Manufacturing Processes Competencies
<ol style="list-style-type: none"> 1. Focus on customer needs 2. Use various instruments 3. Operate tools and equipment safely 4. Practice quality assurance principles 5. Follow personal safety requirements 6. Maintain a safe work environment 7. Demonstrate professional role to be used in an emergency 	<ol style="list-style-type: none"> 1. Read technical drawings and work orders 2. Interpret manufacturing processes 3. Identify set up for manufacturing process 4. Select tools and materials 5. Assist production set up 6. Support set up 7. Operate equipment 8. Monitor product and process specifications 9. Process production documents 10. Follow shutdown process

REGISTERED APPRENTICESHIP BRIDGING OPPORTUNITIES

The following Registered Apprenticeship is available in this area:

- Machine Repair

POST-SECONDARY PATHWAY OPPORTUNITIES

There are several post-secondary pathway opportunities in this area. The following is an example.

- Precision Machining Technology Technical Diploma