

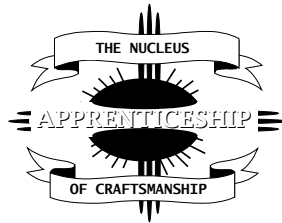


STANDARDS OF APPRENTICESHIP
Adopted by

OREGON INDUSTRIAL DEVELOPMENT TRAINING JATC
(sponsor)

<u>Skilled Occupational Objective(s):</u>	<u>SIC #</u>	<u>SOC #</u>	<u>SYMBOL</u>	<u>SUFFIX</u>	<u>Term</u>
CNC Mill Operator	3900	50-4011	1094	000	2,600 OJT hours

MA#	1143	SOC Title	Computer-Controlled Machine Tool Operators, Metal and Plastic	License	N/A
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APPROVED BY THE
Oregon State Apprenticeship and Training Council
REGISTERED WITH THE
Apprenticeship and Training Division
Oregon State Bureau Labor and Industries
800 NE Oregon Street
Portland, Oregon 97232

APPROVAL:

DECEMBER 20, 2018

Initial Approval Date

By: **BRAD AVAKIAN**
Chairman of Council

NA

Last Date Revised

By: **STEPHEN SIMMS**
Secretary of Council

NA

Committee Amended Date

APPRENTICESHIP STANDARDS

The Oregon State Apprenticeship and Training Council (OSATC) has the authority to develop, administer, and enforce apprenticeship program standards (Standards) for the operation and success of an apprenticeship or on-the-job-training program in the State of Oregon. Apprenticeship programs and committees function to administer, exercise or relinquish authority only with the consent of the OSATC and only apprentices registered with or recognized by the Oregon State Bureau of Labor and Industries (BOLI), Apprenticeship and Training Division (ATD) will be recognized by the OSATC. Parties signatory to these apprenticeship standards declare that their purpose and policy is to establish and sponsor an organized system of registered apprenticeship and training education.

These Standards are in conformity with and are to be used in conjunction with the Apprenticeship Rules, Chapter 839-011 OAR (Oregon Administrative Rules); Apprenticeship and Training Statutes, Chapter 660 ORS (Oregon Revised Statute); The National Apprenticeship Act, 29 U.S.C. (United States Code) 50; Apprenticeship Programs, Title 29 Part 29 CFR (Code of Federal Regulations); and Equal Employment Opportunity in Apprenticeship and Training, Title 29 Part 30 CFR which collectively govern the employment and training in apprenticeable occupations. They are part of the apprenticeship agreement and bind all signers to compliance with all provisions of registered apprenticeship.

If approved by the council, such amendment(s) and such changes as adopted by the council shall be binding to all parties on the first day of the month following such approval. Sponsors shall notify apprentices and training agents of changes as they are adopted by the council. If and when any part of these Standards becomes illegal, as it pertains to federal and/or state law, that part and that part alone will become inoperative and null and void, and the Bureau of Labor and Industries (BOLI) may recommend language that will conform to applicable law for adoption by the OSATC. The remainder of the Standards will remain in full force and effect.

See ORS Chapter 660 & OAR 839-011 for the definitions necessary for use with these Standards.

Sections of the standard inside of a border are specific to the individual standard and may be modified by the sponsor by submitting a revised standard for approval by the Oregon State Apprenticeship and Training Council. All other sections of the standard are boilerplate and may only be modified by the Council.

I. GEOGRAPHIC AREA COVERED:

The sponsor only has authority to recognize training agents (employers) that maintain their principal place of business inside of the geographical area covered by these standards. Training agents that maintain their principal place of business outside of the geographical area covered by this standard may only be recognized as traveling training agents when working in geographic area covered by this standard. The Sponsor will ensure compliance with the provisions for traveling training agents and of any Reciprocity Agreement recognized by the OSATC. (See ORS 660.137 / OAR 839-011-0260 / OSATC Policy # 16)

The geographic area covered by these standards shall be Clackamas, Columbia and Multnomah Counties in the State of Oregon.

II. MINIMUM QUALIFICATIONS:

Minimum qualifications must be clearly stated and applied in a nondiscriminatory manner (See ORS 660.126 (1b). Documentation must be provided for all minimum qualifications:

Age: Minimum of 18 years of age

Education: High School diploma, equivalent GED certificate or have completed an Associate Degree or higher, accredited by an accreditor that is recognized by the U.S. Department of Education;
AND must have successfully completed 1 year of high school mathematics or an equivalent post-high school placement test or course.

Physical: None

Testing: None

Other: Applicant must be an employee of a training agent registered to these standards.

Note: Applicants may be subject to physical assessments and/or drug screening by their training agent as part of their selection process.

III. CONDUCT OF PROGRAM UNDER OREGON EQUAL EMPLOYMENT OPPORTUNITY IN APPRENTICESHIP PLAN (OAR 839-011-0200):

Standards must include the Oregon Equal Employment Opportunity in Apprenticeship and Training Pledge (See OEEOA Section 4)

EEO PLEDGE

The sponsor will not discriminate against apprenticeship applicants or apprentices based on race, color, religion, national origin, sex (including pregnancy and gender identity), sexual orientation, genetic information, or because they are an individual with a disability or a person 40 years old or older. The sponsor will take affirmative action to provide equal opportunity in apprenticeship and will operate the apprenticeship program as required under Title 29 of the Code of Federal Regulations, part 30.

Sponsors with five (5) or more apprentices in an apprenticeable occupation must adopt an Equal Employment Opportunity Plan and Selection Procedures and submit the plans for Council approval. (See OAR 839-011-0200 / Sections 5 & 6 of the Oregon Equal Employment Opportunity in Apprenticeship (OEEOA) / Council policy # 23).

A. SELECTION PROCEDURES:

The committee shall select apprentices from a pool of eligible applicants according to the following procedure: (ORS 660.137 (3) / OEEOA section 6)

1. All out of work apprentices in good standing will be offered the opportunity for re-employment prior to new applicants being registered in conformance with the committee's approved initial employment policy.

As the sponsor of this industrial machinist apprenticeship program, the Oregon Industrial Development Training JATC will take appropriate actions available to the committee to ensure that the selection methods employed by its training agents meet the requirements of the Oregon State Apprenticeship and Training Council (OSATC).

2. Registered training agents in good standing with the committee shall select their apprentices from those bona fide employees who have been on the payroll for at least 750 hours in the preceding six months. The selected employee(s) must meet the minimum qualifications for applicants specified in the standard at the time they are brought into the program.
3. Training agents will be responsible for maintaining records and documentation related to the recruitment and selection of apprentices from within their existing pool of employees for a five-year period. Documentation is to include:
 - a. Apprenticeship opportunity postings
 - b. A list of employees who applied for each opening including race/ethnicity and gender
 - c. The name(s) of the company officials and employees involved in the selection process
 - d. A brief summary of the job-related selection factors and tools (interview, supervisory recommendation, seniority, etc.) including the basis for evaluation, selection, and rejection of each applicant
4. Before being accepted by the committee as a new training agent, an employer wishing to bring five or more apprentices into the program must submit a description of its employee and apprentice selection practices to the Oregon State Apprenticeship and Training Council (Council) for approval.
5. The committee will track the number of apprentices employed by each training agent. When a training agent selects its fourth apprentice, the committee will inform the Council. At the same time, it will inform the training agent that it must submit a description of its employee and apprentice selection practices to the Council before the next cut-off date for Council submittals. The training agent may register additional apprentices prior to the cut-off date, but not subsequently without having submitted its selection procedures to the Council.
6. At its first meeting of each calendar year, the committee will record in its minutes the names of training agents who had five or more apprentices in the previous year.
7. When the Apprenticeship and Training Division (Division) conducts an Affirmative Action Compliance Review, it will contact each training agent with five or more apprentices and request the training agent to provide information relating to its employment practices. Examples of the information the Division may require include the following:
 - a. Documentation regarding the recruitment and selection of apprentices
 - b. Copies of apprenticeship openings that were posted or bid lists
 - c. Company policies related to the selection of employees and apprentices
 - d. Relevant sections from collective bargaining agreements

Any training agent who fails to provide the Division with the information required or who does not follow its Council-approved selection procedures will be cited to appear by the committee in order to discuss the requirements and obligations placed on the committee and training agents by state and federal apprenticeship regulations.

Any training agent who is unable to assure the committee of its ability and commitment to comply with the program's selection requirements will face disciplinary action by the committee, up to and including loss of training agent status.
8. To clearly communicate its ongoing expectations regarding the selection of apprentices, the committee will include a copy of this document in its policies.

EXCEPTIONS**15. OTHER (Lack of internal pool of employees)**

A training agent in good standing with the committee who is unable to fill its apprenticeship openings from within its own workforce because there are either no applicants, or no qualified applicants, may take applications from non-employees if the following conditions are met:

- a. Furnish the committee with documentation of the employer's inability to fill the position from within prior to selecting an apprentice from outside the company's current workforce
- b. At least thirty days prior to the first date to submit applications, distribute a public notice about the apprenticeship opportunity which includes the following elements:
 - 1) Information about the occupation and the nature of apprenticeship
 - 2) The minimum qualifications specified in the committee's standard
 - 3) How apprentices will be selected
 - 4) When and where applications are available
 - 5) At least a two-week period when completed applications will be accepted
 - 6) Where completed applications are to be returned
 - 7) The company's equal opportunity pledge
 - 8) The date the notice will be published

B. EQUAL EMPLOYMENT OPPORTUNITY PLAN:

1. A sponsor's commitment to equal opportunity in recruitment, selection, employment and training of apprentices shall include the adoption of a written affirmative action plan. (See OAR 839-011-0200 / OEEOA sections 5 a, b and c)
2. In addition the sponsor will set forth the specific steps that it will take under this plan, review and update the specific steps that it will take to implement the plan at least yearly and submit the updated steps to the Apprenticeship and Training Division (ATD) for review and approval. (OEEOA section 5 & 8)
3. Numerical goals and timetables for the selection of minority and female apprentices shall be included with the sponsor's annual updated steps. (OEEOA section 5 & 8)
4. The sponsor hereby adopts the following activities in order to enable it to meet its affirmative action obligations.
5. As the sponsor of this apprenticeship program, the committee will take all appropriate actions available to ensure that recruitment, selection, employment, and training of apprentices during apprenticeship shall be without discrimination because of race, color, religion, national origin, or sex. The committee will take the following pro-active steps:
 1. Before being accepted into the apprenticeship program as a new training agent, an employer bringing five or more apprentices into the program at the time of application will, prior to becoming a training agent, submit an Affirmative Action Plan approved by

the committee and the Division.

2. For registered training agents having five or more apprentices, the committee will notify said training agents to submit an annual report, upon request from the Division, documenting the company's continuing affirmative action steps in the recruitment and selection of apprentices for the previous year. By way of the minutes of the first committee meeting each year, the committee will report to the Division the names of training agents having five or more apprentices in the previous year. Training agents should be prepared to include the following information upon a request from the Division, and any other information the Division may require:
 - a. Confirmation of completed affirmative action activities listed in the company's affirmative action plan
 - b. Results of the completed affirmative action activities
 - c. Any documentation regarding the recruitment and selection of apprentices employed by the training agent necessary for the committee to assess fulfillment of training agent responsibilities to the Council

Training agents who have not actively pursued the approved strategies and/or who have not engaged in positive outreach activities will be cited to appear in order to discuss federal requirements and obligations placed on the committee and training agents by the Division. Training agents unable to ensure the committee of continuing good faith affirmative action effort in the selection and hiring of apprentices will face loss of training agent status.

3. The committee adopts the following practices in order to identify barriers in the industry to women and minorities:
 - a. The committee will track the specific reasons why individual minority and female candidates did not complete the program as a further assistance in developing methods for addressing primary barriers. This information will be available to any training agent wishing the information, and will automatically be sent to any training agents with minority and/or women apprentices. Individual counseling will be available by the committee or staff members upon request.
 - b. The committee will prepare an annual mailing outlining the benefits of the apprenticeship program to local employer associations.
 - c. The committee will prepare an annual mailing to approved training agents reminding them of their obligation to make community-based organizations aware of employment and apprenticeship opportunities.
 - d. If requested, the committee will supply a list of the companies affiliated with the program so that prospective apprentices can seek employment with those companies to position themselves for selection as apprentices.

C. DISCRIMINATION COMPLAINTS:

1. Any apprentice or applicant for apprenticeship who believes they have been discriminated against with regards to apprenticeship by the committee may file a complaint. (See OAR 839-011-0200 / OEEOA Section 11)

2. The basis of the complaint may be:
 - a. Discrimination on the basis of race, sex, color, religion, national origin, age, disability or as otherwise specified by law by a sponsor or a sponsor's program
 - b. The equal employment opportunity plan has not been followed; or
 - c. The sponsor's equal employment opportunity plan does not comply with the requirements of the Oregon Equal Employment Opportunity in Apprenticeship Plan.
3. Any such complaint must be filed with the Director of the Apprenticeship and Training Division (Secretary of the OSATC) in writing within 180 days of the alleged illegal discrimination or specified failure to follow the equal opportunity requirements.
4. The written complaint must include the name, address and telephone number of the person allegedly discriminated against, the sponsor involved and a description of the circumstances of the complaint.
5. For complaints dealing with program operations see section X of this document.

IV. TERM of APPRENTICESHIP:

1. The term of apprenticeship will not be less than 2,000 hours of work experience in the apprenticeable occupation identified in this Standard. (See ORS 660.126 (d))
2. The term of apprenticeship must be stated in hours unless otherwise required by a collective bargaining agreement, civil service or other governing regulation. (See ORS 660.126)
3. The sponsor may accelerate, by an evaluation process, the advancement of apprentices who demonstrate abilities and mastery of the occupation to the level for which they are qualified. (See ORS 660.137 (4))
4. When the apprentice is granted advanced standing, the employer must pay the apprentice at the appropriate wage per the wage progression schedule specified in these standards. (See ORS 660.142)

NOTE: In licensed occupations the apprentice must complete the minimum hours of documented legal experience.

The term of apprenticeship shall be NIMS Credentials Completed and 2000 hours of employment.

V. INITIAL PROBATIONARY PERIOD:

1. All apprentices are subject to an initial probationary period, stated in hours of employment during this time; an apprenticeship agreement may be terminated without cause. It is the period following the effective date of the apprentice's current registration into the program and during which the apprentice's appeal rights are restricted. (See ORS 660.126 (1g))
2. The initial probationary period must be reasonable in relationship to the full term of the apprenticeship unless otherwise required by Civil Service, CBA or law. It cannot exceed one

year (12 months) or 25 percent of the length of the program, whichever is shorter. (See ORS 660.126 (1g))

3. During the initial probationary period either party to the agreement may terminate the apprenticeship agreement upon written notice to the Apprenticeship and Training Division of the Oregon Bureau of Labor and Industries. (See ORS 660.126 (1g) & ORS 660.060 (6))
4. An appeal process is available to apprentices who have completed the initial probationary period. (See ORS 660.060 (6) & (7) and section X of this standard)

The probationary period shall be the first 650 OJT hours of employment, or one year after the current registration to this standard, whichever is shorter. (See ORS 660.126 (g))

VI. RATIO OF APPRENTICES TO JOURNEY LEVEL WORKERS:

1. There shall be a maximum numeric ratio of apprentices to journey-level workers consistent with proper supervision, training, safety and continuity of employment. (See ORS 660.126 (1f))
2. The ratio shall be specifically and clearly stated as to its application to the job site, workforce, department, shift, plant or combination therein. (See ORS 660.126 (1f))
3. The Sponsor will assure that apprentices are under the supervision of competent and qualified journey-level workers on the job who are responsible for the work being performed, to ensure safety and training in all phases of the work. (See ORS 660.126 (1f), OAR 839-011-0140 (2g), OAR 839-011-0360)

The ratio of apprentices to journey-level worker shall not be more than 1 (one) apprentice to the first 1 (one) journey-level worker on the shift and plant. Additional apprentices are authorized at a ratio of 1 (one) apprentice for each additional 1 (one) journey-level worker(s). (See ORS 660.126 (f))

VII. APPRENTICE WAGES and WAGE PROGRESSION:

1. The apprentice shall be paid according to a progressively increasing schedule of wage based on specified percentages of the average journey-level wage consistent with skills acquired. (See ORS 660.126 (1h))
2. Wage progressions shall be indicated in hourly or monthly periods (the registration agency recommends the use of hour periods) set by the Sponsor. (See ORS 660.126 (h))
3. The entry wage will not be less than the federal or state minimum wage rate, whichever is higher. (See ORS 660.142 (4))
4. The wage listed in this standard at all periods establishes a minimum and a higher wage may be required by other applicable federal law, state law, respective regulations, or by a collective bargaining agreement. (See ORS 660.126 (1h), ORS 660.137 (6), ORS 660.142 & OAR 839-011-140 (2f))

5. The sponsor must re-determine the average journey-level wage at least annually and submit the new average journey wage to the Director of the Apprenticeship and Training Division with a statement explaining how such determination was made and the effective date of the new average journey wage. (See ORS 660.137 (6))
6. Upon approval by the Director, the Division will notify all training agents and apprentices of the new wage. (See ORS 660.142 (2))

The average wage for those journey-level workers employed by the participating employers in this occupation on **January 1, 2020** is \$ **19.11** per **hour**.

Period	Number of required hours	NIMS Credentials	% of the journey level rate
1	0-1000	0	75%
2	1001 - 2000	2	80%
3	2001 - 2600	3	90%

VIII. WORK PROCESSES:

1. The apprentice shall receive the necessary instruction and experience to become a journey-level worker versed in the theory and practice of the occupation. (See ORS 660.155 / ORS 660.157 / OAR 839-011-0360)
2. The following is a condensed schedule of work experience that every apprentice shall follow as closely as conditions will permit. (See ORS 660.126 (1c) OAR 839-011-0360; OAR 839-011-0140)

NOTE: In licensed occupations apprentices must complete the minimum required total hours prior to being referred to the license examination.

Work processes

Approximate
hours

a. Measurement, Materials, and Safety

500

- **Identify and Demonstrate Usage of Machine Safety and Personal Protective Equipment**
- **Demonstrate Compliance with Lockout/ Tagout Procedures and OSHA Requirements and Guidelines**
- **Machine Operations and Material Handling, Hazardous Materials Handling and Storage, including EPA, Hazmat, and OSHA**
- **Part Inspection:** Develop an inspection plan and inspect simple parts using precision tools and techniques. Prepare reports on the compliance of the parts.
- **Process Control:** Follow a sampling plan. Inspect the samples for the

required data. Enter the data on appropriate charts. Graph the data. Respond to the warning conditions indicated by the process charts.

- **Process Adjustment – Single Part Production:** Analyze the performance of a single-part production process. Formulate process adjustments or improvements where appropriate. Where appropriate, notify supervision of the proposed adjustment and/or improvement. Where authorized, carry out the strategies for process adjustment and/or improvement.
- **Participation in Processes Improvement:** As a member of a process team, analyze the performance of a production process. With the team formulate process adjustments or improvements where appropriate. Where appropriate, notify supervision of the proposed adjustments and/or improvement. Where authorized, carry out the strategies for process adjustment and/or improvement.

b. Job Planning, Benchwork, and Layout

500

- **Manual Operations – Layout:** Layout the location of hole centers and surfaces within an accuracy of ± 0.015 inch.
- **Manual Operations – Benchwork:** Using aluminum or mild steel, hand drill and hand tap holes. Use hand drills, hand taps, tap wrench, files, scrapers, and coated abrasives to deburr parts. Use arbor presses to perform press fits. Use bench vises and hand tools appropriately.
- **Sawing:** Set-up and perform sawing to a layout. Choose and mount appropriate blades; weld, break, and re-weld blades as necessary.
- **Job Process Planning:** Develop a process plan for a part requiring milling, drilling, turning, or grinding. Fill out an operation sheet detailing the process plan and required speeds and feeds.

g. CNC Milling

1,000

- **CNC Programming:** Using the principles of Cartesian coordinates develop a program for the manufacture of a simple part.
- **Write a Simple CNC Milling Program and Review Tool Path:** Using a computer and editor software, write simple CNC programs using M and G codes. Simple programs are single plane, cutter centerline, linear and circular interpolation, single cutter, with no canned cycles as specified on the print.
- **Operate a CNC Milling Machine**

i. General

600

- **Housekeeping and Maintenance:** Keep the duty station clean and safe for work. Keep the tools, workbenches, and manual equipment clean, maintained, and safe for work.
- **Preventative Maintenance – Machine Tools:** Inspect and assess the general condition of an assigned machine tool. Make routine adjustments as necessary and as authorized. Report problems to supervision which are beyond the scope of authority. Carry out daily, weekly, and/or monthly routine upkeep chores cited on checklists for a

given machine tool

- **Tooling Maintenance:** Inspect and assess the condition of tooling. Refurbish tooling where appropriate. Refer tooling for repair or regrind where appropriate.

TOTAL OJT HOURS

2600

NOTE: The committee realizes that the completion of 2600 hours of on-the-job training is the ideal, but recognizes that most apprentices will not be able to fulfill the total amount of hours specified in every work process as set forth in this standard. When an apprentice is unable to fulfill the total work hours in each work process the committee will evaluate the apprentice's knowledge, skills and abilities and provide appropriate additional related instruction to assure that competency is acquired in each work process. The evaluation and summary of the additional instruction will be noted in the apprentice's file.

IX. RELATED/SUPPLEMENTAL INSTRUCTION:

1. The apprentice must attend related/supplemental instruction for at least 144 hours per year unless otherwise stated in this standard. Time spent in related/supplemental instruction will not be considered as hours of work, and the apprentice is not required to be paid for time so spent. (See ORS 660.126 (1e))
2. The Committee must provide for instruction of the apprentice during the related/supplemental instruction in safe and healthful work practices in compliance with the Oregon OSHA regulations and applicable federal and/or state regulations. (See ORS 660.137)
3. In case of failure on the part of any apprentice to fulfill the related instruction obligation, the sponsor has the authority to withhold the apprentice's periodic wage advancement; or with a reasonable opportunity to remedy deficiencies, suspend, or cancel the Apprenticeship Agreement. (See ORS 660.157 (4))
4. Clock hours of actual attendance by the apprentice in related/supplemental instruction classes at the community college, training trust or other approved training provider shall be documented and tracked by the Committee. (See ORS 660.157 (2a))
5. Related instruction activities must be at the direction of a qualified instructor. (See ORS 660.157 (3))

Methods of related/supplemental training must consist of one or more of the following: (See ORS 660.157)

- d. ☒ Community college;

A minimum of 144 hours of related training shall be required during each year for each of the first three (3) years of the program or until all required related training hours as set

forth in the program standards are completed. During any subsequent year(s) that the apprentice remains in the program, a minimum of 40 hours of related training shall be required. (See ORS 660.126 (e))

The following is a summary of related instruction including required class hours in each element of instruction. A committee may establish and submit clear objectives and outcomes in lieu of hours for each class subject. (See ORS 660.157)

Apprentices must complete all required community college related training classes or equivalent with a C or better, gain the required NIMS Credentials, and meet all the required on the job training hours to meet the requirements of a NIMS Certified Apprenticeship Program and earn a Certificate of Completion.

APPRENTICE CORE COMPETENCIES	NIMS CREDENTIALS
Identify and Demonstrate Use of Machine Safety and Personal Protective Equipment Demonstrate Compliance with Lock-out/Tag-out Procedures and OSHA Requirements and Guidelines Machine Operations and Material Handling Hazardous Materials Handling and Storage, including EPA, Hazmat, and OSHA Part Inspection Process Control Process Adjustment – Single Part Production Participation in Processes Improvement	Measurement, Materials, and Safety Level I
Manual Operations: Layout Manual Operations: Benchwork Sawing Job Process Planning	Job Planning, Benchwork, and Layout Level I
CNC Programming - Milling and / or CNC Programming - Turning CNC: Write a Simple CNC Milling and / or CNC Turning Program and Review Tool Path CNC: Operate a CNC Milling Machine and / or Operate a CNC Lathe	CNC Milling Level I
General Housekeeping & Maintenance Preventative Maintenance - Machine Tools Tooling Maintenance	Included in all Machining Credentials

Course		Hours
	Machine Tool Basics - includes familiarization of the Machinery's Handbook, safe work practices, safe clothing for personal safety, fire prevention in the shop, and hand tool safety	20
2.	Machine Shop Math Includes working with whole numbers, fractions, decimals, formulas, inch and metric systems, formulas, calculating simple and direct indexing, applying use of inch/metric systems, dividing/index head and formulas as they pertain to thread calculations, gear calculations, speed and feed calculations, and taper calculations.	40
3.	Manufacturing Process I Includes: Basic Machining processes, setups and Strategies. Measuring Instruments, Basic tool layout, drill press, bandsaw and hand tools. Setup and operate manual milling machine to face mill, end mill, side mill, drill, ream and chamfer. Setup and operate manual lathe to drill, face turn, groove, taper and file.	100
4.	Blueprint Reading	60
5.	CNC Mill Programming Introduces basic programming skills used with Fanuc (G&M compatible) controlled CNC machining centers	100
6.	CNC Mill Operations Basic operation and setup skill used with Fanuc (G&M compatible) controlled CNC machining centers. CNC Machine Panels, CNC Modes, CNC Key Sequences and CNC Program Verification.	180
7.	Vertical Milling Machines and Operations Covers setup, application and operation of the vertical milling machine. Introduces the commonly performed operations and uses of a variety of cutters, accessories, indicators, center/edge finder, clamping methods, squaring a block of material on all 6 sides, finding the edge of a workpiece, drilling/threading a hole, performing circular cutting operations, using the boring head to bore holes on manufactured parts to print specifications	70
TOTAL		570

X. ADMINISTRATIVE/DISCIPLINARY PROCEDURES:

See: ORS 660.120 OAR 839-011-0073

1. Local committee rules or policies and any employment requirement such as driver's license, drug test etc. will be located in this section.
2. The committee may include provisions for committee-imposed "disciplinary probation," which is a time assessed when the apprentice's progress is not satisfactory; a "disciplinary probation" may only be used to provide an opportunity for the apprentice to correct deficiencies and cannot affect the apprentice's appeal rights after the initial probation is completed. (See ORS 660.137 (4))

3. During disciplinary probation the committee may withhold periodic wage advancements, suspend or cancel the apprenticeship agreement, or take other disciplinary action. (See ORS 660.137 (4))
4. The apprentice has the right to file an appeal of the committee's disciplinary action with the Director of the Apprenticeship and Training Division. (See ORS 660.137 (4))
5. Complaint and Appeal Procedures:
 - a. Each committee shall adopt and submit complaint review procedures for Division approval.
 - b. All approved committees are expected to administer the program's approved complaint review process in a fair and consistent manner. (See ORS 660.120, ORS 660.060 & OEEOA Section 9)
 - c. Complaints that involve matters covered by a collective bargaining agreement are not subject to the complaint review procedures in this section. (See ORS 660.126 (2))
 - d. After the initial probationary period the apprenticeship agreement may be canceled by a written request from the apprentice. (See ORS 660.126 (1g) ORS 660.060 (7))
 - e. After the initial probationary period the committee may only suspend, cancel or terminate the apprentice agreement for good cause, which includes but is not limited to: failure to report to work, nonattendance at related instruction, failure to submit work progress reports and lack of response to committee citations. (See ORS 660.060 (7))
 - i. Due notice and a reasonable opportunity for correction must be provided to the apprentice.
 - ii. Upon suspension a written notice must be provided to the apprentice and to the Apprenticeship and Training Division.
 - iii. Upon cancellation a written notice must be provided to the apprentice and to the Apprenticeship and Training Division.
 - f. Each committee shall utilize the following procedures and time lines for disciplinary action (cancellation or termination). Committees may adopt and submit alternate complaint procedures, for Division review and approval, providing the procedures are reasonably expected to offer equal protection to the apprentice. (See ORS 660.060 (8))
 - i. At least 22 days prior to potential disciplinary action by a committee
 - o The committee must notify the apprentice in writing of alleged reason for the proposed disciplinary action and potential action to be taken if the allegation is substantiated
 - o The decisions are effective immediately upon committee action
 - o The committee will send written reason(s) for such action to the apprentice by registered or certified mail and will include the appeal rights of the apprentice
 - ii. Within 30 days of receipt of committee decision the apprentice may request reconsideration of the action taken by the committee

- The apprentice's request for the local committee to reconsider their disciplinary action must be submitted in writing and must include the reason(s) the apprentice believes the committee should reconsider the disciplinary action.
 - iii. Within 30 days of apprentice's request for reconsideration
 - The local committee must provide written notification of their final decision including the appeal rights of the apprentice if the committee upholds its decision on the disciplinary action
- g. If the apprentice chooses to pursue the complaint further
 - i. Within 30 days of notification of the committee's final action
 - The apprentice must submit the complaint describing in writing the issues associated with the disciplinary action to the Director of the Apprenticeship and Training Division
 - The apprentice must describe the controversy and provide any backup information
 - The apprentice must also provide this information to the local committee/organization
 - ii. Within 60 working days the Director of the Apprenticeship and Training Division will complete a review of the record
 - If no settlement is agreed upon during review, the Director must issue a non-binding written decision resolving the controversy.
- h. If the apprentice or local committee disputes the Director's decision
 - i. Within 30 days of Director's decision the dissenting party must submit a request for the OSATC to hear its case
 - Request must be in writing
 - Must specify reasons supporting the request
 - Request and supporting documents must be given to all parties
 - OSATC Rules and Policy Sub-Committee conducts hearing within 45 days and reports its findings to the next regular quarterly meeting of the OSATC
 - The OSATC renders a decision based on the sub-committee's report.
 - ii. Within 30 days of the OSATC meeting
 - The Secretary of the OSATC issues the decision in writing

XI. COMMITTEE – RESPONSIBILITIES AND COMPOSITION:

The following is an overview of the requirements associated with administering an apprenticeship committee and/or program. These provisions are to be used in conjunction with the corresponding ORS and/or OAR.

1. The committee is the policymaking and administrative body responsible for the operation and success of this Apprenticeship program.
2. The committee is responsible for the day-to-day operation of the apprenticeship program and must be knowledgeable in the application of Chapter 660 ORS, OAR 839 division 011 and other law and rule as appropriate to the occupation(s).

3. Sponsors must develop policies and procedures for committee operations (ORS 660.060 (8), ORS 660.135, ORS 660.137, OAR 839-011-0170). The committee's specific policies pertaining to the operation of the program are included in this standard. The procedures for the implementation of the approved policies are maintained by the committee. After approval by the division the approved procedures shall be distributed to all apprentices and training agents.
4. Committees must convene meetings at least semi-annually that are attended by a quorum of committee members as defined in the approved Standards. (See ORS 660.137 (4))
 - a. A quorum for a local joint or trade committee shall consist of at least two (2) members representing the employers and two (2) members representing the employees. (See ORS 660.135 (3), ORS 660.145)
 - b. Conference call meetings may be conducted in lieu of regular meetings but must not exceed the number of attended meetings during a calendar year and may not authorize disciplinary action of apprentices. (See ORS 660.060 (8))
 - c. Minutes of all meetings must be submitted to the Apprenticeship and Training Division within 10 working days of the meeting. (See OAR 839-011-0170)
5. Program Operations (ORS 660.135, ORS 660.137, OAR 839-011-0170, OAR 839-011-0200):
 - a. The Committee will record and maintain records pertaining to the local administration of its Apprenticeship Program and make them available to the OSATC or its representative on request.
 - i. These records include, but are not limited to
 - Selection of applicants
 - Administration of the apprenticeship program
 - Affirmative action plans
 - Documentation necessary to establish a sponsor's good faith effort in implementing its affirmative action plan
 - Qualification standards
 - b. Records required by the Oregon Equal Employment Opportunity in Apprenticeship rules (OAR 839-011-0200) will be maintained for five (5) years; all other records will be maintained for five (5) years after the final action taken by the committee on the apprenticeship agreement.
 - c. The following must be submitted by all programs through the Apprenticeship Representative assigned to assist the committee:
 - i. Apprenticeship Registration Agreement – within the first 45 days of employment as an apprentice. (See ORS 660.020, OAR 839-011-0088) (In licensed occupations registration must occur prior to employment in the trade)
 - ii. Committee Minutes – within 10 working days of the meeting. (See OAR 839-011-0170)

- iii. Authorized Training Agent Agreements – within 10 working days of committee action to approve the training agent. (ORS 660.020, OAR 839-011-0162))
 - o Interim recognition may be authorized by committee policy but may not exceed 45 calendar days.
 - o Any recognition of a training agent prior to formal action of the committee must be in conformance with the committee's council approved policy.
 - iv. Revision of Occupation Standards - as necessary, no later than 45 days prior to OSATC meeting. (See OAR 839-011-0030) (Programs should review their Standards at least annually)
 - o Forms are available from the Apprenticeship Representative. If approved by the OSATC, such amendment(s) and such changes as adopted by the OSATC will be binding to all parties on the first day of the month following OSATC approval.
 - v. Revision of Committee Member Composition as necessary (included in committee minutes). (See OAR 839-011-0074)
 - vi. Average Journey Level Wage – at least annually or whenever changed (included in minutes and by letter to the Director summarizing how the average wage was determined). (See ORS 660.137 (6), ORS 660.142)
 - vii. Authorization of Signature - as necessary (See ORS 660.135 (4))
 - viii. Authorization for issuance of initial license may be granted after the committee is found to be in compliance for operational purposes
 - d. Adopt, as necessary or as directed, local program policies and procedures for the administration of the apprenticeship program in compliance with this Standard. (See ORS 660.060 (8), ORS 660.120 (2), OAR 839-011-0073)
 - i. Policies must be submitted to the OSATC for review and approval.
 - ii. Procedures must be submitted for Division (ATD) approval and inclusion by reference in this Standard prior to implementation.
6. Apprentice Management:
- a. Applicants accepted by the committee, who have documented legal experience creditable to the apprenticeship in the skilled occupation or in some other related capacity, may be granted advanced standing as apprentices. (See OAR 839-011-0088 (3a) Apprentices admitted to advanced standing will be paid the wage rate for the period to which such credit advances them. (In licensed occupations previous credit must be documented legal experience)
 - b. Each apprentice (and, if under 18 years of age, the parent or guardian) will sign an Apprenticeship Agreement with the Sponsor, who will then register the Agreement, with the Apprenticeship and Training Division of the Bureau of Labor and Industries within the first 45 days of employment as an apprentice. (See ORS 660.020 (1), ORS 660.060, OAR 839-011-0088)

- c. The Apprenticeship and Training Division must be provided a copy of the committee minutes approving any change of disposition or modification of the Registration Agreement within 10 working days of the committee meeting. (See OAR 839-011-0170)
 - i. Requests for disposition or modification of Agreements include: (1) Certificate of completion, (2) Additional credit, (3) Suspension, military service, or other, (4) Reinstatement, (5) Cancellation, (6) Re-rates, (7) Holds, (8) Examination Referral, (9) Corrections, (10) Limited Supervision-electrical, (11) Phased Supervision-plumbing.
- d. Rotate apprentices in the various processes of the skilled occupation to ensure the apprentice is trained to be a competent journey-level worker. (See ORS 660.137 (2c), OAR 839-011-0265.
- e. At least once every six months the sponsor must review and evaluate each apprentice's progress and take action to advance based on the apprentice's progress or hold the apprentice at the same level for a reasonable period and opportunity for corrective action or terminate for continued inadequate progress. (See ORS 660.137 (4))
- f. The evidence of such action will be the record of the apprentice's progress on the job and during related/supplemental instruction.
 - i. If the apprentice's progress is not satisfactory, the committee has the obligation to withhold the apprentice's periodic wage advancements, suspend or cancel the Apprenticeship Agreement, or take other disciplinary action as established under the "Administrative/Disciplinary Procedures."
- g. The committee has the obligation and responsibility to provide insofar as possible, reasonably continuous employment for all apprentices in the program. (See ORS 660.126, ORS 660.020)
 - i. The committee may arrange to transfer an apprentice from one training agent to another or to another committee when the committee is unable to provide reasonably continuous employment, or they are unable to provide apprentices the diversity of experience necessary for training and experience in the various work processes as stated in this Standard.
 - ii. If, for any reason, a layoff of an apprentice occurs, the Apprenticeship Agreement will remain in effect unless canceled by the committee.
- h. An apprentice who is unable to perform the on-the-job portion of apprenticeship training may, if the apprentice so requests and the committee approves, participate in related/supplemental instruction classes, subject to the apprentice obtaining and providing written medical approval for such participation. However, time spent will not be applied toward the on-the-job portion of apprenticeship training. (See ORS 660.126 (i))
- i. The committee will hear and adjust all complaints of violations of apprenticeship agreements. (See ORS 660.137)

- j. Upon successful completion of apprenticeship, as provided in these Standards, and passing any examination that the committee may require, the committee will recommend that the Oregon Commissioner of Labor award a Certificate of Completion of Apprenticeship. (See ORS 660.137, ORS 660.205)

7. Training Agent Management:

- a. Offer training opportunities on an equal basis to all employers and apprentices. (See OAR 839-011-0084)
- b. Grant equal treatment and opportunity for all apprentices through reasonable working and training conditions and apply those conditions to all apprentices uniformly. (See OAR 839-011-0200, Council Policy # 13)
- c. Provide training at a cost equivalent to that incurred by currently participating employers and apprentices. (See OAR 839-011-0084)
- d. An employer shall not be required to sign a collective bargaining agreement or join an association as a condition of participation. (See OAR 839-011-0162)
- e. Determine the adequacy of an employer to furnish proper on-the-job training in accordance with the provisions of these Standards. (See ORS 660.137)
- f. Require all employers requesting approved training agent status to complete a training agent application and comply with all Oregon State apprenticeship laws and the appropriate apprenticeship Standards. (See ORS 660.137)
- g. Submit approved training agent agreements to the Apprenticeship and Training Division within 10 working days of committee approval with a copy of the agreement and/or the list of approved training agents and committee minutes where approval was granted. (See OAR 839-011-0170)
- h. Make periodic checks of approved training agents and withdraw approval when approval qualifications are no longer met or when it appears to the committee that the employer is in violation of the terms of the apprenticeship agreement, standards, rules, regulations and policies of the committee or OSATC. (See ORS 660.137)
- i. If a committee acts to withdraw training agent status from an employer the action must be recorded in the committee minutes and submitted to the Apprenticeship and Training Division within 10 working days of the committee action. (See OAR 839-011-0170)

8. COUNCIL REQUIRED POLICIES: (See ORS 660.120 - ORS 660.137)

a. Credit for prior experience

The committee will grant credit for previous experience based on the knowledge, skills, and abilities of the apprentice based on attainment of NIMS Credentials.

b. OJT requirements (hours, work processes, rotation/partial rotation, monthly progress reports, timelines, applicable penalties)

The apprentice shall work for the approved training agent as assigned by the committee

and shall record work hours.

c. Related training requirements (attendance, grades)

The apprentice must attend and satisfactorily complete classroom instruction and self study education (a.k.a. related training) as directed by the committee.

d. Complaint procedures

The committee will promptly and fairly resolve any complaints brought to its attention.

e. Process for the review and evaluation of apprentice progress

The committee will regularly review and evaluate the progress of each apprentice as to job performance and related instruction and NIMS Credentials.

f. Advancement requirements (re-rates, completions)

The committee will advance the apprentice to the next level in the wage progression when the apprentice demonstrates the required knowledge, skills, and abilities based on NIMS Credentials.

g. Disciplinary process (appearances, holds, cancellations)

The committee will take corrective action for any failure to satisfy program requirements.

h. Training agent requirements (approval, discipline, removal)

The committee will recognize the employer as an approved training agent when (and so long as) the employer demonstrates that it meets all qualifications established by the committee.

i. Traveling training agent policy

N/A

j. Initial employment policy

If applicable, an applicant who has been placed in the ranked pool shall be afforded a reasonable opportunity for employment and shall only be removed from the pool in accordance with the committee's published policies and procedures.

k. Placement procedures for out-of-work apprentices

Apprentices terminated by individual employers will be canceled by this committee with credit granted for completed OJT and related instruction.

- I. License requirements, including exam referral and completion requirements (for licensed trades only)

N/A – This trade does not require a license.

9. Optional Policies

All committee policies and procedures fall under the boilerplate of this document and the required Council policies outlined above.

10. Composition of Committee:

- a. Joint apprenticeship and training committees must be composed of an equal number of employee and employer representatives composed of at least four principal members but no more than eight principal members. An alternate member may be appointed for each principal member. A quorum shall consist of at least two employer members and two employee members. (See ORS 660.135; OAR 839-011-0074)
- b. Trades apprenticeship and training committees must be composed of an equal number of employee and employer representatives composed of one principal employee and one principal employer member for each occupation covered by the trades committee. An alternate member may be appointed for each principal member. A quorum shall consist of at least two employer members and two employee members. (See ORS 660.145; OAR 839-011-0074)
- c. Employee representatives shall not be supervisors as defined by the National Labor Relations Act (as amended). (See OAR 839-011-0074)
- d. Employee representatives shall be skilled practitioners of the trade, except;
- e. A labor organization which is the recognized bargaining representative may designate elected representatives as employee members. (See ORS 660.135 & OAR 839-011-0074)
- f. The committee shall elect a chairperson and a secretary from the committee members. One of the offices must be held by an employer member and one office must be held by an employee member.
- g. Committee members or officers may be removed for failure to abide by ORS 660 or the rules and policies of the council or committee. (See OAR 839-011-0078)

The program administered by this committee is a: JATC

(See ORS 660.135) or (ORS660.145)

The employer representatives shall be:

(See attached committee list)

The employee representatives shall be:

(See attached committee list)

XII. SUBCOMMITTEE:

Subcommittee(s) may be approved by the sponsor but may only recommend actions to the parent Committee.

XIII. TRAINING DIRECTOR/COORDINATOR/ADMINISTRATOR/CONTACT PERSON:

The Sponsor may employ a person(s) as a full or part-time Training Coordinator(s)/Training Director(s)/Administrator(s). This person(s) will assume responsibilities and authority for the operation of the program as are specifically delegated by the Sponsor.

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