

4. ON-THE JOB LEARNING (OJL) SCHEDULE**Occupation Title: CNC SET-UP PROGRAMMER - MILLING AND TURNING****O*NET-SOC CODE: 51-4012.00****RAPIDS CODE: 1100CB**

INSTRUCTIONS: Check-off each Core Competency and enter the completion date as the apprentice demonstrates a level of proficiency that is equivalent to a journeyworker level employee with Supervisor/Trainer signoff.

Tasks	Date Completed	Supervisor/Trainer Signature
1. Identify and Demonstrate Usage of Machine Safety and Personal Protective Equipment		
2. Demonstrate Compliance with Lock-out/Tag-out Procedures and OSHA Requirements and Guidelines		
3. Machine Operations and Material Handling, Hazardous Materials Handling and Storage, including EPA, Hazmat, and OSHA		
4. Part Inspection		
5. Perform the Inspection of Parts		
6. Process Control		
7. Process Adjustment – Single Part Production		
8. Participation in Processes Improvement		
9. Manual Operations: Layout		
10. Manual Operations: Benchwork		
11. Sawing		
12. Job Process Planning		
13. Drilling Operations		
14. Milling: Square Up a Block		
15. Manual Milling: Vertical and Horizontal – Level I Machining Skills		
16. CNC Programming - Milling - Level I Machining Skills		
17. CNC: Write a Simple CNC Milling Program and Review Tool Path - Level I Machining Skills		
18. CNC: Operate a CNC Milling Machine - Level I Machining Skills		
19. CNC: Operate a CNC Milling Machine or Milling Center - Level II Machining Skills		
20. CNC: Advanced Manual Programming – Level II machining Skills		

21. Use Manufacturing Modeling Software to Create programs – Level III Machining Skills		
22. Turning Operations: Turning Between Centers – Level I Machining Skills		
23. Turning Operations: Chucking – Level I Machining Skills		
24. CNC Programming – Turning – Level I Machining Skills		
25. CNC: Write a Simple CNC Turning Program and Review Tool Path – Level I Machining Skills		
26. CNC: Operate a CNC Lathe – Level I Machining Skills		
27. CNC: Operate a CNC Lathe or Turning Center – Level II Machining Skills		
28. CNC: Advanced Manual Programming – Level III Machining Skills		
29. Use Manufacturing Modeling Software to Create CNC Turning Programs – Level III Machining Skills		
30. General Housekeeping & Maintenance		
31. Preventive Maintenance – Machine Tools		
32. Tooling Maintenance		
Approximate Total Hours = 4,800-6,500*		

***FOR GUIDELINE PURPOSES**

WHEN THE MAJORITY/ALL COMPETENCIES HAVE BEEN CHECKED OFF, AND ALL RELATED INSTRUCTION COURSEWORK HAS BEEN COMPLETED SATISFACTORILY THE EMPLOYER SHOULD REQUEST A CERTIFICATE OF COMPLETION OF APPRENTICESHIP FROM THE REGISTRATION AGENCY (SEE SECTION XIX, PAGE 7):

**USDOL OFFICE OF APPRENTICESHIP
55 PLEASANT STREET, ROOM3503
CONCORD, NH 03301**