

Tool Grinder (Precision Form) - 603.782.034

The following schedule of work experience is intended as a guide. It need not be followed in any particular sequence, and it is understood that some adjustments may be necessary in the hours allotted for different work experience. In all cases, the apprentice is to receive sufficient experience to become fully competent and use good workmanship in all work processes which are a part of the trade. The apprentice will be fully instructed in safety and OSHA requirements.

A. LATHES (1000 Hours)

1. Simple turning on centers
2. Turning to micrometer measurement on centers mandrel and arbor work
3. Setting up for chuck work
4. Drilling, reaming and cutting off in chuck
5. Eccentric and offset work on lathe safety
6. Safety

B. MILLING MACHINES (1000 Hours)

1. Plain milling, vise work
2. Plain milling table work
3. Index center work
4. Dividing head work
5. Form work
6. Safety

C. SHAPER (800 Hours)

1. Simple shaper vise work
2. Advanced shaper vise work
3. Shaper table work
4. Angle Shaper work
5. Safety

D. DRILLS (300 Hours)

1. Simple drill press work
2. Advanced drill press work
3. Hand, jig, drilling, tapping
4. Grinding of drills, use of drills, jigs and fixtures
5. Safety

E. GRINDING (2468 Hours)

1. Surface Grind
 - a. simple angle straight forms
 - b. simple angles

2. Cylindrical Grind
 - a. different radius, etc.
 - b. controlling dimensions, etc.
 - c. jig and die and gauge work
3. Form Tools
(Special forms and more complicated tools)
4. Single Point Tools
(High speed and carbide)
 - a. O.D. grinding
 - b. Internal and foil plate work
5. During the course of training, the following will have to learn and become familiar with:
 - Inspection
 - Regular micrometers
 - Protractor
 - Calipers
 - Optical Comparator
 - Special Micrometers and gauges
 - Safety

F. RELATED INSTRUCTION (432 Hours)

1. Blueprint reading
2. Shop Mathematics

TOTAL - 6000 Hours

WAGE SCHEDULE

0 - 1000	Hours	_____
1001 - 2000	Hours	_____
2001 - 3000	Hours	_____
3001 - 4000	Hours	_____
4001 - 5000	Hours	_____
5001 - 6000	Hours	_____
Journeyman	Rate	_____