

Toolmaker Eyelet - 601.280.042

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 (1500 Hours)

1. Simple turning on centers
2. Shoulder work on centers
3. Turning to micrometer measurement on centers
4. Mandrel and arbor work
5. Special lathe work
6. Setting up for chuck work
7. Drilling, reaming and cutting off in chuck
8. Reaming-die threading and tapping in lathe
9. External N.S. (U.S.S.) Threading on centers
10. Steady and follower rest work
11. Special thread work
12. Setting up plate work
13. Chuck and faceplate boring
14. Internal threading
15. Taper work
16. Eccentric and offset work on lathe
17. Miscellaneous faceplate work
18. Locating holes, faceplate work
19. Lubrication
20. Safety

B. MILLING MACHINES (1500 Hours)

1. Plain milling, vise work
2. Plain milling, table work
3. Antle milling
4. Index center work
5. Dividing head work
6. Vertical milling work
7. Milling table-locating holes
8. Form work
9. Spiral milling
10. Lubrication
11. Safety

C. CUTTER, CYLINDRICAL & SURFACE GRIND (500 Hours)

1. Straight cutter grinding
2. Angle and spiral cutter grinding
3. External cylindrical grinding
4. Internal and faceplate work
5. Plain surface grinding
6. Surface grinding for jig, die and gauge work
7. Safety

D. DRILLS (400 Hours)

1. Simple drill press work
2. Advanced drill press work
3. Hand, jig, drilling, tapping
4. Methods of setting up
5. Operation of Radial and upright drill press
6. Grinding of drills, use of drills, jigs and fixtures
7. Lubrication
8. Safety

E. TOOLSETTING FOR PRODUCTION ON EYELET MACHINES (600 Hours)

This work will include the setting up of dies, punches, tools, and their use in volume production on Eyelet Machines.

F. HEAT TREATING (400 Hours)

This work shall be done under the close supervision of a journeyman who will instruct the apprentices in the principles of heat treating and the operation of heat treating equipment.

G. BENCH & ASSEMBLY (1000 Hours)

Prepare and assemble all machined parts under the supervision of a qualified journeyman.

H. TOOLMAKING (1524 Hours)

This will include work from blueprints on jigs, fixtures, transfer slides and tool work of various types embracing as wide a scope of work experience as the scheduled time and aptitude of the apprentice permits. During this period the apprentice will be under the close supervision of the supervisor or the journeyman toolmaker to whom he/she may be assigned.

- I. RELATED INSTRUCTION (576 Hours)
 - Mechanical Drawing & Shop Sketching
 - Elementary Physics
 - Science of Metal (Metallurgy)
 - Trade Science
 - Blueprint Reading
 - Mathematics
 - Economics and Safety
 - First Aid

TOTAL - 8000 Hours

WAGE SCHEDULE

0 - 1000	Hours	_____
1001 - 2000	Hours	_____
2001 - 3000	Hours	_____
3001 - 4000	Hours	_____
4001 - 5000	Hours	_____
5001 - 6000	Hours	_____
6001 - 7000	Hours	_____
7001 - 8000	Hours	_____
Journeyman	Rate	_____