

## Injection Molding Technician - Plastic - 556.780.010

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 slight 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 in all work processes which are a part of the trade. The apprentice will be fully instructed in safety and OSHA requirements.

### **Work Process "A"**

- A. MAINTENANCE OF PRESSES AND EQUIPMENT (1312 Hours)  
(Electrical, Hydraulic and Mechanical)
  - 1. Lubricate
  - 2. Safety controls
  - 3. Hydraulic systems
  - 4. Electrical and Computer Controls
  - 5. Injection Unit
  - 6. Clamp End
  - 7. Heating Elements
  - 8. Solid State Controllers
  - 9. Robotics
  - 10. Support Equipment
  - 11. Automation Equipment
  - 12. Cooling Systems
  
- B. INJECTION MOLDING OF THERMO PLASTICS (700 Hours)
  - 1. Knowledge of Wide Range of Materials
  - 2. Processing Amorphous
  - 3. Heat Profile Characteristics
  - 4. Characteristics of Materials
  
- C. PREFORMING MOLD AND MACHINE SETUP PROCEDURE (1100 Hours)
  - 1. Installing Mold into Machine
  - 2. Setting Electrical Controls on Mold
  - 3. Hooking up Cooling to Mold
  - 4. Setting the Complete Profile on the Molding Machine
  - 5. Setting Heat Profile
  - 6. Setting the Clamp Profile
  - 7. Setting the Injection Profile
  - 8. Fine Tuning the Process Window
  
- D. BASIC KNOWLEDGE OF MECHANICS OF MOLDS (400 Hours)
  - 1. Basic Configuration Understanding
  - 2. Working Knowledge of Mold Plates and Components
  - 3. Basic knowledge of machinery used in molding industry

E. INSPECTION / MEASURING (200 Hours)

1. Learn to Recognize Molding Defects
2. Learn Characteristics of How and What Happens to Parts after Molded

F. RELATED INSTRUCTION (288 Hours)

TOTAL - 4,000 Hours

**WAGE SCHEDULE**

0 - 1000	Hours	_____
1001 - 2000	Hours	_____
2001 - 3000	Hours	_____
3001 - 4000	Hours	_____
Journeyman	Rate	_____