



PROCESSING PRINCIPLES

COURSE OUTLINE

- Introduction
- Mold Set
- Proper Mold Clamp Tonnage
- Ejector Rod Tie In
- Nozzle tips
- Nozzle Alignment
- Plumbing a Mold
- Using Material Spec Sheets
- Temperature Profiles
- Shot Size
- Scientific Molding Philosophies
- Rheology Curves
- Injection Pressure
- Gate Seal
- Cooling
- Monitoring the Process

COURSE OBJECTIVES

- Understanding Basic Processing on an electric machine
- Learn how to set a mold.
- Learn how to Plumb a mold and set ejector rods.
- Understanding Process Monitoring
- Understanding Processing (scientific molding) on an electric machine
- Learn how to select proper temperature profiles.
- Learn how to select shot size
- Understanding Scientific Molding Philosophies
 - Fill
 - Pack
 - Hold
 - Cooling
- Building a Rheology Curves
- Understanding Gate Seal

COURSE SCHEDULE AND HOURS

The training class will begin promptly at 9:00AM. Arrival at 8:45AM is appreciated.

Day 1

7 hours 9:00AM-4PM

- Introduction
- Nozzle tips
- Mold Set
- Setting Ejector Rods
- Temperature Selection (plastic)

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PNA | TECHNICAL
SERVICES

- Temperature Profiles
- Temperature Selection (mold)
- Plumbing the Mold
- Proper tip selection and nozzle alignment
- Understanding Injection and back pressure on an electric machine
- Basic screw and barrel terminology

Day 2

4 hours 9:00AM-1PM

- Shot Size
- Scientific Molding Philosophies
- Rheology Curves
- Injection Pressure
- Gate Seal
- Cooling

LOCATION / PARKING: Shibaura Tech Center, 755 Greenleaf Avenue, Elk Grove, IL 60007. Parking will be available in the visitor parking lot on the east side of the building.

MEALS: Upon arrival, a continental breakfast (donuts, coffee juice and water) will be served in the technical center. Lunch will be provided in the same location.

HANDOUTS: You will be given a hardcopy of the presentation for note taking and reviewing after the class.

CERTIFICATE of COMPLETION: Upon completion of the two-day session, you will be given a Certificate of Completion for the training class.

PLANT REQUIREMENTS: Dress is business casual. Safety classes will be required when in the technical center at the machines.

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