

Plastic Extrusion

Duration: 16 total hours - Cost: \$ 3,200

Class size: 24 Maximum

This is a two-day course for employees involved in operating, maintaining or managing extrusion equipment.

The content areas covered by the course are:

- Extrusion machinery
- Instrumentation and control
 - Plastics in extrusion
- How an extruder works
- How to run an extruder
- How to troubleshoot extrusion problems

Overview

MPI is an established workforce development partner that has provided solutions since 1993, training thousands of employees for hundreds of Mississippi companies. We are committed to providing your employees with the critical knowledge, skills and abilities for your company to compete globally. MPI offers on-site and off-site polymer training in composites, injection molding, extrusion and lean manufacturing

Course Facilitator

Ty Posey joined MPI in 1997, as MPI's technical service and workforce development leader he has worked to grow the polymer industry in the state of Mississippi through all phases of MPI's operational focus. He has trained thousands of Mississippi employees for numerous Mississippi companies. He is a NIST-certified instructor for the Lean Manufacturing Suite of courses, a certified plastics instructor, is a Six Sigma Black Belt and has developed courses for specific company training needs. He holds a bachelor's degree in Polymer Science and a Master's degree in Workforce Training and Development from The University of Southern Mississippi.

TO SCHEDULE CLASSES

VISIT US AT:

www.thepolymerinstitute.com

or

GIVE US A CALL AT:

601.266.4607



MISSISSIPPI
POLYMER
INSTITUTE

TRAINING CLASSES

COMPOSITES

EXTRUSION

INJECTION MOLDING

POLYMERS

LEAN MANUFACTURING

Implementation of Setup-Reduction

Duration: 8 total hours - Cost: \$ 1,600

Class size: 24 Maximum

Let MPI help you implement setup reduction in your plant.

Reducing change over times will improve your machine utilization, product quality, and allow one to reduce work in process inventory.

Total Productive Maintenance

Duration: 4 total hours - Cost: \$ 800

Class size: 24 Maximum

Total productive maintenance (TPM) is a process to maximize the productivity of your equipment for its entire life. The goal of TPM is to maximize your Overall Equipment Effectiveness (OEE) and to reduce equipment downtime to zero while improving quality and capacity.

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Introduction to Composites

Duration: 4 total hours - Cost: \$ 800

Class size: 24 Maximum

Introduction to Composites is a course that serves as the first step to learning the principles of composites materials and manufacturing. No previous experience is required as the course is designed to teach the participant the language of the composites industry.

The content areas covered by the course are:

- Composites materials
- Composites manufacturing methods
- Composites safety

Introduction to Polymers

Duration: 1 total hours - Cost: Free

Class size: 24 Maximum

Polymers are everywhere and many companies use polymers and/or process polymers. This course will give the participant an overview of polymeric materials, their properties, and methods of manufacturing.

Introduction to 3D Printing

Duration: 2 total hours - Free

Class size: 24 Maximum

Let MPI help you get started in the world of 3D Printing. You get hands on experience with Polyjet and FFF printers. We will cover the below topics.

- Technologies
- Printers
- Online Community
- Design and Print

Lean Manufacturing

MPI's Lean Manufacturing Suite is part of the National Institute of Standards and Technology (NIST) standardized courses that are taught nationwide. Our courses will integrate seamlessly throughout your supply chain and from plant to plant nationwide.

Lean Manufacturing Introduction

Duration: 1 total hours – Cost: Free

Class size: 24 Maximum

A quick introduction to lean manufacturing that will help communicate your company's lean manufacturing goals so that all employees are working toward common goals.

Principles of Lean Manufacturing with Simulation

Duration: 8 total hours - Cost: \$ 2,200

Class size: 12 Minimum - 24 Maximum

Principles of Lean Manufacturing with Simulation is the first step to learning the principles of lean manufacturing. No previous experience is required. The course is a mix of classroom and live simulation. Participants learn by manufacturing simulated circuit boards in a traditional manufacturing setting. The simulation provides a setting for applying lean manufacturing principles in a continuous improvement environment.

Implementation of Value Stream Mapping

Duration: 8 total hours - Cost: \$ 1,600

Class size: 24 Maximum

The course is conducted on site, for the purpose of collecting process information to create a value stream map of your company's products. Value stream mapping develops a plan for the implementation of lean manufacturing and is an essential step in becoming lean.

5S/Visual Controls

Introduction to 5S/Visual Controls

Duration: 1 total hours – Cost: Free

Class size: 24 Maximum

Designed to train employees quickly and to convey the importance of 5S to your company. Your employees will understand the benefit of adherence to the rules of 5S.

Implementation of 5S/Visual Controls

Duration: 8 total hours - Cost: \$ 1,600

Class size: 24 Maximum

Let MPI improve your workplace organization and standardization through the implementation of the 5S system.

1. Sort
2. Set in Order
3. Shine
4. Standardize
5. Sustain

A properly implemented 5S system will improve plant efficient, communication, employee morale, and safety.

Injection Molding

Duration: 24 total hours - Cost: \$ 4,800

Class size: 24 Maximum

This course is for employees who are involved in operating, maintaining or managing injection molding machines. It is a three-day course with hands on processing at the injection-molding machine. The content areas covered are:

- Injection molding basics
- Troubleshooting defects
- Plastics in injection molding
- Establishing an injection molding process
- Understanding processing parameters
- Injection molding hydraulics and maintenance