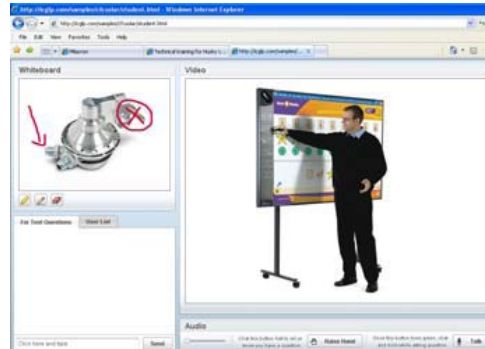


Live Internet-Based Training

The Milacron Plastics Technologies Group is pleased to offer to its customers live internet-based training! Our newest training option specifically addresses the challenges our customers face in today's marketplace; budget and time constraints. Now you can get live training from our experts in short durations and at economical prices!

What: Courses are focused to the plastics industry and are specifically customized to address Milacron equipment such as the Powerline and Maxima series of injection molding machines. Some of the initial classes available include electrical and/or hydraulic specifics, understanding bar charts, lubrication, plus electrical and hydraulic print reading. These initial courses address the most common needs of maintenance personnel and the topics are applicable across different Milacron product lines. Brief course descriptions on these initial offerings are listed further below.



Who: Classes are geared to Milacron customers. Courses are open to all Milacron customers but customers can also arrange for a private class so only their personnel are in the course.

How: Your company personnel can take these classes from any location worldwide with ease and convenience. Access to the training courses is via the internet using a web browser such as Microsoft Explorer. No special software is needed and no special setup is required. Once logged in, students will be able to interact with the instructor and the instructor's presentation. Students can ask the instructor questions, interact with the instructor's presentation, take a test and even answer polling questions when prompted. Any course material that is required for the class can be downloaded and is available ahead of the scheduled course presentation. Audio interaction is available via the internet using Voice Over Internet Protocol (VOIP) technology or via phone. Specific directions for accessing the course will be available upon registration. For more information on any of the training descriptions, please contact Milacron customer training administration at 513-536-2265 or email us at training@milacron.com.

When: The 2012 1st Quarter Schedule is listed below and shows what specific courses will be available in the near future. Most classes are offered multiple times throughout the week. In the months ahead, complete beginning and advanced courses on specific machines such as Roboshot, Magna, Maxima, Powerline and the older Vista will be added to the class offerings.

Schedule of Live Online Courses

1st Quarter 2012

Course #	Title	Date	Time (EST)
IM-101	Bar/Sequence Charts for Hydraulic Machines	3/05/2012	9 am – 11 am
IM-109	Hydraulic Circuits on Maxima and Milacron Machines Part 1 & 2	3/06/2012	9 am – 11 am
IM-111	Hydraulic Circuits on Maxima and Milacron Machines Part 3 & 4	3/07/2012	9 am – 11 am
SCP-103	Basic Electrical Print Reading for Hydraulic and Electrical Injection Molding Machines	3/08/2012	9 am – 11 am

Pricing: The cost for each 2-hour session is \$190. For this price an ID is assigned and sent to an individual to be used on a single PC and with single toll-free phone line access. If two people from the same company want to sit in on the same class but they are in different locations, the price would be \$190 for each since they would be on separate PCs and, thus, require a separate ID and a separate phone line. However, more than one student may share a single PC at no additional cost. ID codes for classes may be purchased anytime online via credit card or in advance with a P.O.

Registration: To register for any of these classes, please contact Milacron customer training administration at 513-536-2265 or email us at training@milacron.com.

Course Descriptions

IM-101: Bar/Sequence Charts for Hydraulic Machines

This course will cover reading and interpreting bar/sequence charts associated with Milacron hydraulic injection molding machines.

Prerequisites: None

Learning Objectives:

- Read bar/sequence chart
- Identify the Factory Set Points (FSP), Set Point (SP) and legend items
- Identify all other basic chart symbols including A-numbers
- Recognize interaction between operator screens and bar charts
- Define machine states
- Identify energized valves for various machine states

IM-109: Hydraulic Circuits on Maxima and other Milacron Machines (Part 1 & 2)

This course covers the knowledge needed to work with the hydraulic prints from Milacron's Maxima and other hydraulic machines.

Prerequisites: None

Learning Objectives:

- Identify hydraulic symbols found on prints
- Discuss in detail the hydraulic prints
- Explain the different hydraulic machines states
- Trace flow from pumps to cylinders and back to tank
- Show where to check pressures and install gages
- Describe function of all valves
- Discuss troubleshooting techniques

IM-111: Hydraulic Circuits on Maxima and other Milacron Machines (Part 3 & 4)

Continuation of IM-109

SCP-103: Basic Electrical Print Reading for Hydraulic and Electrical Injection Molding Machines

This course discusses basic electrical print reading from a generic viewpoint (not manufacturer specific).

Prerequisites: None

Learning Objectives:

- Identify basic electrical symbols
- Discuss mapping (moving from one electrical circuit page to another)
- Discuss incoming power and step-down transformers
- Follow inputs and outputs to and from proportional valves
- Identify fuses and what they control
- Identify power supplies, wire numbers, open/close contacts, A-numbers, circuit breakers
- Discuss block identification, plug wiring and transducer wiring
- Discuss troubleshooting basics

Don't Forget About Hands-on classes!

Want the perfect compliment to our internet classes? We can provide instructor-led training on-site at your location or at our Cincinnati headquarters. This type of hands-on instruction makes a great capstone course, pulling in the knowledge gained online and combining it with real world training right on your own machinery. Ask us for a quote today.

For more information on any of the training described above please contact Milacron customer training administration at 513-536-2265 or email us at training@milacron.com.

Thank you for your interest in training services from our Plastic Technologies Group!