



Bühler Training.
**2017 Program
Overview.**

Technical Education & Training.

Course Descriptions.

Mechanical Maintenance & Evaluation - Prince Machines

This course is a study of the mechanics and lubrication system of Prince die casting machines. Each area and/or assembly is examined as to:

Content

- Its purpose
- Identify wear
- The effect on the process and tooling as a result of wear
- Required repair procedures
- Preventing excessive wear

Dates

March 2 - 3, 2017
September 7 - 8, 2017

Times

8:00 am - 4:00 pm Thur
8:00 am - 12:00 pm Fri

Price

\$700

Instructor

Paul Clossen

Hydraulics - Prince Machines

This course is a study of hydraulic principles, components, circuits and the required maintenance of fluid used on Prince die casting machines.

Content

- The circuits are studied one section at a time. The operation of each component and its purpose in the circuit is explained
- Extra attention is given to valves that are designed exclusively for use on die casting machines
- Troubleshooting procedures and methods are reviewed throughout the session

Dates

March 6 - 9, 2017
September 11 - 14 2017

Times

8:00 am - 4:00 pm Mon-Wed
8:00 am - 12:00 pm Thur

Price

\$900

Instructor

Paul Clossen

Process Control

This course is designed to study the functions that the die casting machine provides to the die casting process.

Content

- Both the clamp end and the shot end of the machine are studied
- Shot profile interpretation and explanation
- Special machine components used to monitor and control machine functions are examined
- Shot traces, castings, power curves and capabilities are from machines running castings

Dates

March 14 - 16, 2017
September 26 - 28, 2017

Times

8:00 am - 4:00 pm Tue-Wed
8:00 am - 12:00 pm Thur

Price

\$900

Instructor

Paul Clossen

Technical Education & Training.

Course Descriptions.

Setting Carat Machines

Content

- Design & operating principles of die casting machines
- Operation and installations
- Programming & setting
- Process settings
- Process monitoring
- Analysis of the die casting process
- Recognition of simple process or machine faults

Dates

April 18 - 21, 2017
October 17 - 20, 2017

Times

8:00 am - 4:00 pm Tue - Thur
8:00 am - 12:00 pm Fri

Price

\$900

Instructor

Hermann Roos

Maintenance Carat Machines

Content

- Design & operating principles
- Hydraulics & electronics
- Control engineering
- Electric safety doors, machine sensors, interfaces
- Fundamentals of hydraulics
- Safety devices
- Details of hydraulic components (pumps, valves, proportional control hydraulics)
- Analysis of operating trouble and tools
- How to troubleshoot
- Preventative maintenance & servicing of hydraulic systems

Dates

April 10 - 14, 2017
October 9 - 13, 2017

Times

8:00 am - 4:00 pm Mon-Thur
8:00 am - 12:00 pm Fri

Price

\$1,100

Instructor

Paul Clossen

Process Optimization Buhler Machines

Content

- OEE: Availability, productivity, cycle time
- Basics of die casting technology
- Spraying technology
- Thermal balance in the die
- Melting and cleaning of alloys for die casting
- Formation of casting defects and their impact on the function of components
- Process monitoring

Dates

April 24 - 28, 2017
October 30 - Nov 3, 2017

Times

8:00 am - 4:00 pm Mon-Thur
8:00 am - 12:00 pm Fri

Price

\$1,100

Instructor

Hermann Roos

Technical Education & Training.

Additional Class Information & Registration.

Training courses are held at the BuhlerPrince facility. Return registration form, along with purchase order number, to Kathy Perkins at the email address or fax number listed below. Visa and MasterCard are also accepted. Class size is limited. BuhlerPrince reserves the right to cancel if minimum number of attendees is not met. BuhlerPrince can also provide customized training at your facility. Ask for a proposal tailored to your needs.

Location

BuhlerPrince
670 Windcrest Drive
Holland, MI 49423
Phone: 616 394 8248
Fax: 616 394 1250

Included

Morning refreshments
Lunches
Course materials

Recommended Hotels

DoubleTree

616 394 0111
650 East 24th Street
Holland, MI 49423
(ask for Buhler rate)

Holiday Inn Exp

616 738 2800
12381 Felch Street
Holland, MI 49424

Questions

Kathy Perkins
Phone: 616 394 8248 / kathy.perkins@buhlergroup.com
Paul Cnossen
Phone: 616 394 8295 / paul.cnossen@buhlergroup.com

Fairfield Inn

616 786 9700
2854 Westshore Drive
Holland, MI 49424

Hampton Inn

616 399 8500
12427 Felch Street
Holland, MI 49424

Company Name

Student Name/Email

Course

Company Street Address

Student Name/Email

Course

City/State/Zip

Phone

Fax

PO Number



Instructor: Paul Cnossen

Paul began his career with BuhlerPrince in 1984 as an electronics technician. From 1990 to 1997 he worked as a Machine Builder, Service Technician and Training Assistant. In 1997 Paul took over the Technical Education Program. Paul is a two time winner of the Instructor of the Year award given by the North American Die Casting Association. He enjoys spending time in the great outdoors with family and friends, sports, and cooking.

Instructor: Hermann Roos

Hermann began his career with Buhler, Switzerland in 2008 and has recently moved to BuhlerPrince. Joining the Customer Service group as Die Casting Application Technologist, Hermann works with customers supporting their process related needs. He received a Mechanical Engineering degree from the University of Applied Science and Economics, Aalen, Germany and since has worked on projects developing salt cores, lost cores and conducted many Buhler training classes. In his spare time he enjoys basketball and traveling.

*Training is designed for maintenance technicians, die casting technicians, process technicians and die casting engineers.