

BuhlerPrince Training. 2023 Program Overview.



Technical Education & Training.

Course Descriptions.

Hydraulics - Bühler Carat & 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

- Introductory study of the hydraulic circuits of both Bühler Carat and Prince machines are studied.
- 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

Course materials, refreshments and lunches included

Location

Hilton Garden Inn Nashville/Brentwood,
217 Centerview Drive
Brentwood, TN 37027

Hotel Price & Registration

\$154/night (taxes extra)

Includes hot breakfast each morning. BuhlerPrince will reserve your room upon registration, however cost is the responsibility of the attendee and due at checkout

Register for class and reserve your room
at <https://buhlerprince.eventbrite.com>

Dates

February 6 - 9, 2023

Times

8:00 am - 4:00 pm (Mon - Thur)

Price

\$1,200 (before January 30, 2023)

Registration is non-refundable for this special class

Instructor

Paul Cnossen

**New
Course!**

**Offsite in
Brentwood, TN**

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.



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

February 16 - 17, 2023
September 7 - 8, 2023

Times

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

Price

\$800

Instructor

Paul Cnossen

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

February 20 - 23, 2023
September 11 - 14, 2023

Times

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

Price

\$1,000

Instructor

Paul Cnossen

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

February 28 - March 2, 2023
September 26 - 28, 2023

Times

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

Price

\$900

Instructor

Paul Cnossen

Technical Education & Training.

Course Descriptions.

Maintenance of Carat Machines with Dataview

Content

- Design and operating principles
- Hydraulics and 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 and servicing of hydraulic systems

Dates

March 6 - 9, 2023
October 9 - 12, 2023

Times

8:00 am - 4:00 pm (Mon - Thur)

Price

\$1,100

Instructor

Paul Cnossen

Setting up Carat Machines with Dataview

Content

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

Dates

March 14 - 16, 2023
October 3 - 5, 2023

Times

8:00 am - 4:00 pm (Tue - Thur)

Price

\$1,000

Instructor

Paul Cnossen



Technical Education & Training.

Course Descriptions.

Setting up and Maintenance of Ecoline Machines

Content

- Machine Design
- Programming and Monitoring the Machine Functions
- Machine Diagnosis
- Hydraulic Circuit Study
- Electrical Control System Explanation

Dates

March 21 - 23, 2023

October 17 - 19, 2023

Times

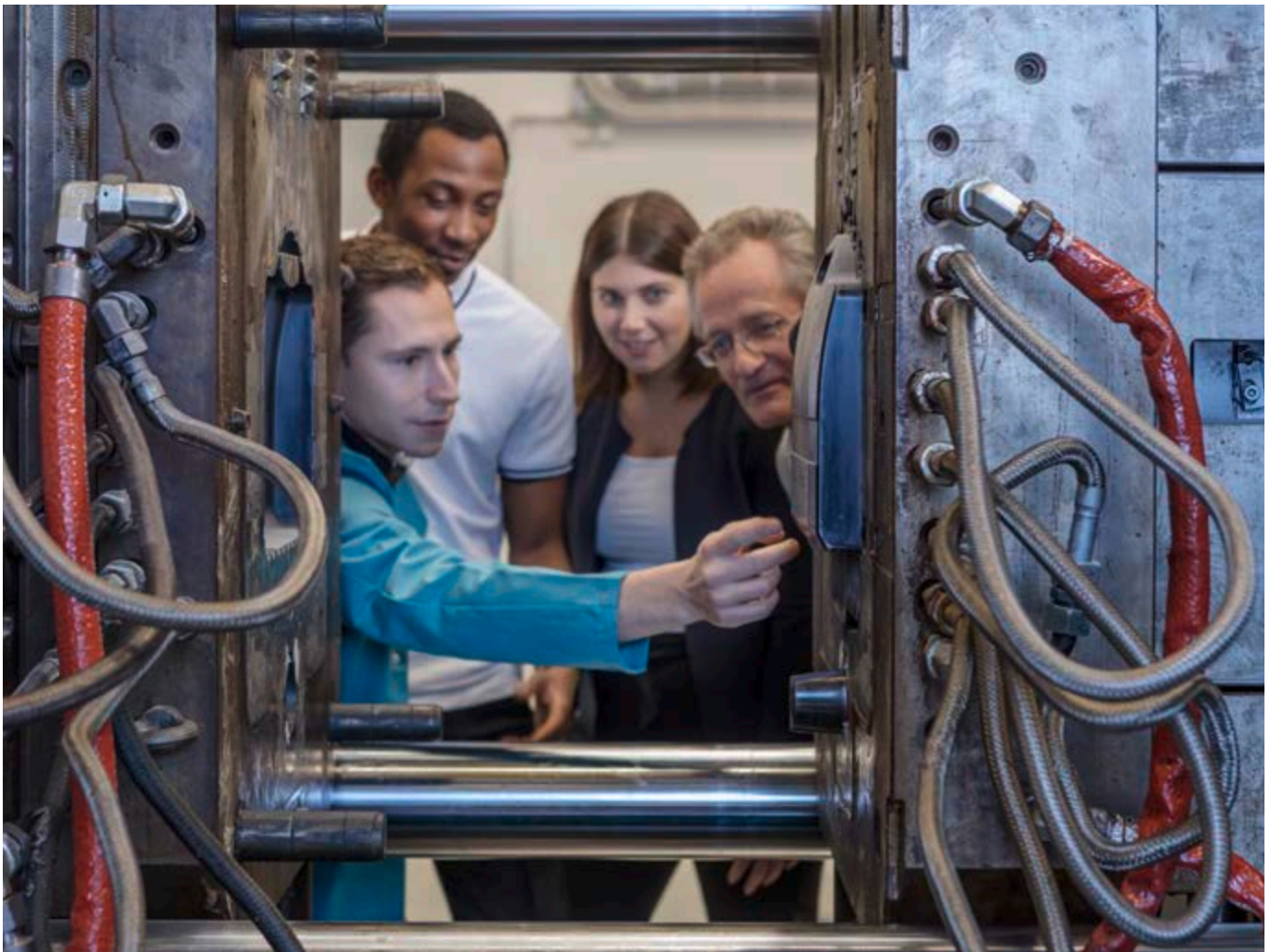
8:00 am - 4:00 pm (Tue - Thur)

Price

\$1,000

Instructor

Paul Crossen



Technical Education & Training.

Additional Class Information & Registration.

We can also provide customized training at your facility. Contact us for a proposal tailored to your needs.

Location

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

Registration

To register and for updated
information, please visit
<https://buhlerprince.eventbrite.com>

Questions

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

Please note class sizes are limited. BuhlerPrince reserves the
right to cancel if minimum number of attendees is not met.

Recommended Hotel (Ask for Bühler rate)

Home2Suites

616 377 7905
3140 Westshore
Dr. Holland, MI 49424

Holiday Inn Exp

616 738 2800
12381 Felch Street
Holland, MI 49424

Hampton Inn

616 399 8500
12427 Felch Street
Holland, MI 49424

Morning Refreshments, lunches, and course materials are included

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www.buhlerprince.com