



BuhlerPrince  
Training.  
**2019 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**

January 31 - February 1, 2019  
September 5 - 6, 2019

#### **Times**

8:00 am - 4:00 pm (Thu)  
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**

February 4 - 7, 2019  
September 9 - 12, 2019

#### **Times**

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

#### **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**

February 12 - 14, 2019  
September 17 - 19, 2019

#### **Times**

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

#### **Price**

\$900

#### **Instructor**

Paul Clossen

# Technical Education & Training.

## Course Descriptions.

### Setting Carat Datanet 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

February 26 - March 1, 2019  
October 1 - 4, 2019

#### Times

8:00 am - 4:00 pm (Tue - Thu)  
8:00 am - 12:00 pm (Fri)

#### Price

\$900

#### Instructor

Paul Crossen

### Maintenance Carat Datanet 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

March 4 - 7, 2019  
October 7 - 10, 2019

#### Times

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

#### Price

\$1,100

#### Instructor

Paul Crossen



# 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.

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