BuhlerPrince Training. 2021 Program Overview.

In the event that an in-person program is not possible due to impracticalities associated with COVID-19 or the resulting federal, state, or municipal restrictions, we will conduct this training online. Please visit www.buhlerprince.eventbrite.com for regular updates. BUHLER

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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

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 18 - 19, 2021 September 9 - 10, 2021

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

Price \$800

Instructor Paul Cnossen

Dates

February 22 - 25, 2021 September 13 - 16, 2021

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

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

March 2 - 4, 2021 September 21 - 23, 2021

Times

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

Price \$900

Instructor Paul Cnossen

Technical Education & Training. **Course Descriptions.**

Die Casting Basics

This class is designed for those starting in the die casting industry including technicians, equipment and material suppliers, casting buyers and managers. This course will give you a thorough basic understanding of die-casting technology, metallurgy and processes.

Content

- The principles of die casting and metallurgy
- Process principles
- Die protection
- Systematics of spraying technologies and die tempering
- Casting trials
- By the end of the course you will have a good basic understanding of the principles of die casting.

Dates

March 9 - 11, 2021 September 28 - 30, 2021

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

Price \$1,000

Instructor Luis Quintana

Die Casting Process Optimization

This training is made for Setup Technicians, Operating Technicians, Process Technicians, Process Engineers, Tooling Engineers and managers. This class is designed for those interested in learning how to enhance the die casting process. This course will teach you how to optimize your die-casting process to increase productivity, improve quality and maximize cost efficiency.

Content

- Understanding the die-casting process
- Principles of metallurgy
- Analyzing casting parameters
- · How to recognize process errors and their causes
- · How to optimize the die-casting process
- How to protect the die during casting
- How to recognize statistical correlations
- Spraying technology and die tempering
- How to run casting trials
- By the end of the course you will be able to optimize your die-casting process with effective troubleshooting, die protection and statistical data. It can help you to reduce cycle time and waste, while improving quality and productivity.

Dates

March 30 - April 1, 2021 October 26 - 28, 2021

Times

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

Price

\$1,000

Instructor

Luis Quintana

Technical Education & Training. **Course Descriptions.**

Setting up Carat machines with Dataview

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

March 15 - 18, 2021 October 11 - 14, 2021

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

Price \$1,000

Instructor Paul Cnossen

Maintenance Carat Machines with Dataview

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 22 - 25, 2021 October 18 - 21, 2021

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

Price \$1,100

Instructor Paul Cnossen





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: Luis Quintana

After obtaining a degree in Mechanical Engineering, and an MBA, Luis started his die casting career in Mexico developing Total Productive Maintenance and Preventive Maintenance workshops. In 2014 he became a die casting process engineer and in 2016 moved to the U.S, continuing with process activities and analyzing manufacturing processes. Luis joined BuhlerPrince in 2018 as a Die Casting Application Technology Engineer. In his spare time, Luis enjoys spending time with friends and traveling.





Technical Education & Training. Additional Class Information & Registration.

For updated information, registration and payment, please visit www.buhlerprince.eventbrite.com. 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

Questions Kathy Perkins Phone: 616 394 8248 / kathy.perkins@buhlergroup.com

Included

Lunches

Morning refreshments

Course materials

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

Other Hotels

Holiday Inn Exp 616 738 2800 12381 Felch Street Holland, MI 49424

Fairfield Inn

616 786 9700 2854 Westshore Drive Holland, MI 49424

Hampton Inn

616 399 8500 12427 Felch Street Holland, MI 49424

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670 Windcrest Drive Holland, MI 49423 T 616 394 8248 F 616 394 1250 www.buhlerprince.com