Die Casting 101:
Basics of Design, Terminology and Technology

Die casting is a versatile process for producing complex-shaped metal parts with a high degree of accuracy and repeatability. Parts made by die casting are critical components in thousands of products, including automobiles, household appliances, farm equipment, power tools, computers, and much more. In fact, die castings are used in more applications than components produced by almost any other metal forming process and are among the highest volume mass-produced items manufactured by the metalworking industry as a whole.

Could you or your employees benefit from learning the basics of die casting?
Our Die Casting 101 seminar will help participants easily understand the die casting process with respect to manufacturing and quality. No formal working knowledge of die casting is required!

Explore the many facets of die casting with WMU professor Dr. Sam Ramrattan, who will explain and discuss the design principles, terminology and technology unique to the die casting industry.

Topics Covered:
- Why choose die casting?
- Principles of high pressure die casting
- Components of a high pressure die casting machine
- A shot and its components
- Identification of die casting defects and cost

Participants will walk away with:
- An increased knowledge of the die casting process
- An understanding of the factors driving cost
- A better ability to communicate with suppliers

Date and Time
Thursday, November 3, 2022, 9 a.m. to 3 p.m.
Lunch provided noon to 1 p.m.
Networking to follow from 3 to 3:30 p.m.

Price
$459/participant
10% Corporate discount for 3 or more attendees

Location
WMU-Grand Rapids, AMP Lab
200 Ionia Ave, SW, Grand Rapids
Parking available on area streets and the Cherry-Commerce Parking Ramp

Registration URL: grcc.edu/diecasting
Please register by Monday, October 24, 2022
Questions? Contact:
Mallory Bourdo (WMU) at mallory.bourdo@wmich.edu
Elleena Chrzan (GRCC) at echrzan@grcc.edu

Dr. Sam Ramrattan is a professor in the Department of Engineering Design, Manufacturing and Management Systems at Western Michigan University's College of Engineering and Applied Sciences. He received his bachelor's and master's from the University of Wisconsin-Stout, Ph.D. from Iowa State University, and postdoc from Ames National Laboratory. His area of specialization is materials and processes with an emphasis on casting processes.

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