



# ADVANCED MANUFACTURING TRAINING PROGRAM



## ADVANCED MANUFACTURING

The things you make – whether products or buildings – need to be better suited to human needs.

They need to be more customized, configurable, connected, and valuable to customers and the producers. This is achieved through Advanced Manufacturing.



An HVAC and refrigeration company used Advanced Manufacturing software by Autodesk to support them across design, materials, processes mold tooling and machining, resulting in a reduction of over 3.1 million lbs. of CO2 equivalent emissions.

**4,780 hrs**  
Per year additional machine capacity

**26%**  
Reduction in part cost

**7 wks**  
Saved in product development

A company that provides molding solutions found success with Advanced Manufacturing by optimizing its designs to reduce cooling time using Autodesk Moldflow. Operating in an industry where reduced cycle times by even a fraction of a second is a success, this company reduced theirs by almost a minute.

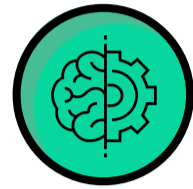
**60%**  
Reduction in Cycle Time

Material Waste Reduced to **.15%**

**70%**  
of the Production Process Improved by Optimizing Cooling

## BENEFITS OF D3 TRAINING PLANS

D3 offers several unique training programs to help you reach the solution you need. Ignite is the newest addition to the D3 training program family and focuses on training you in the niche processes required for Advanced Manufacturing. Ignite includes five diversified training tracks to help you improve your skills in the Advanced Manufacturing software you use.



**PUSH LIMITS**  
Help your team push the limits of what's possible with Advanced Manufacturing



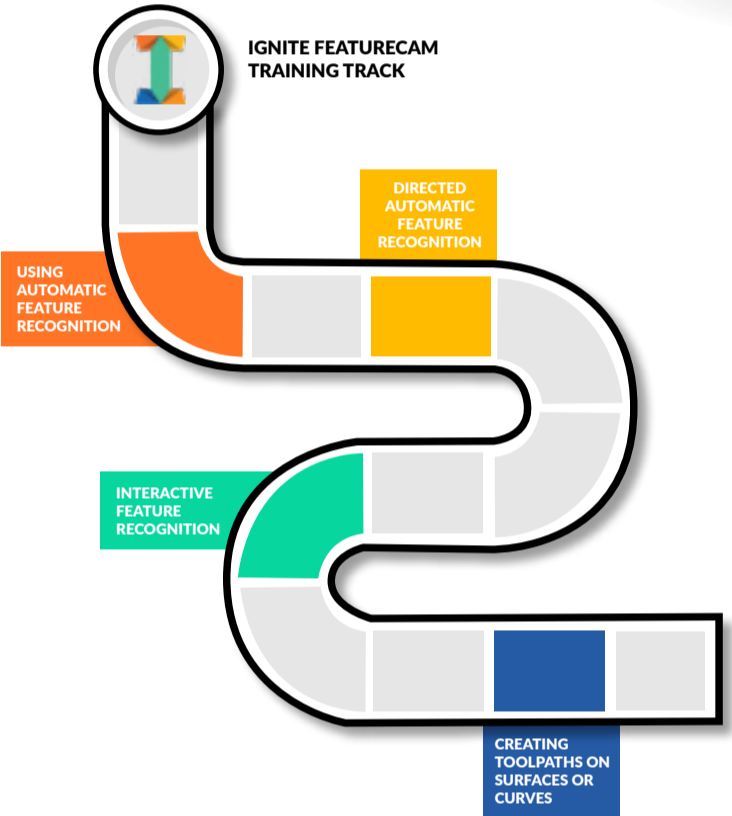
**SCHEDULE**  
Get the flexibility to attend training in-person or online through D3's CAD LIVE training program.



**AFFORDABILITY**  
Simplified and affordable training options at 40% the cost of similar classes.

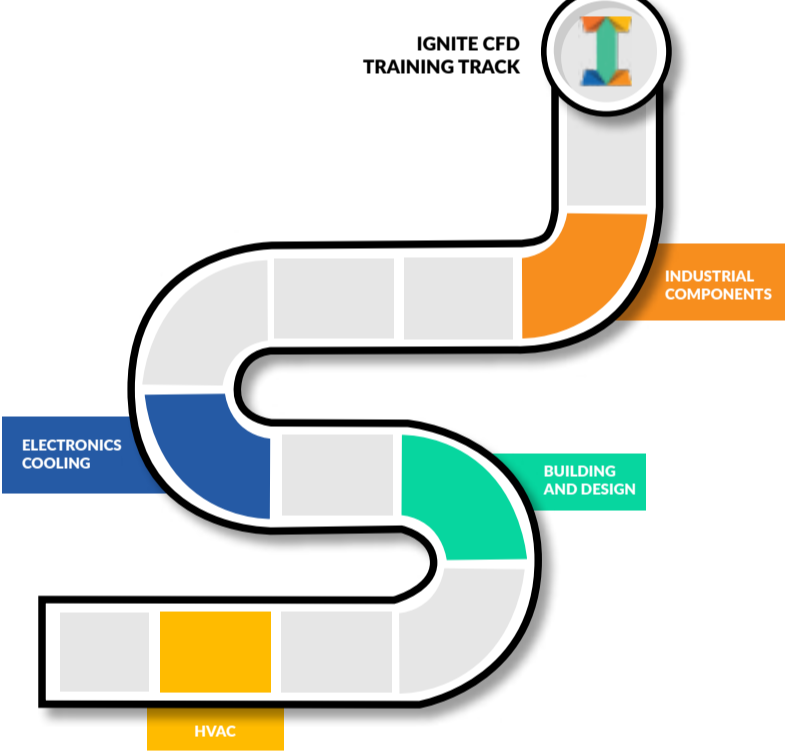


**LATEST UPDATES**  
Our courses reflect the latest software updates and information.



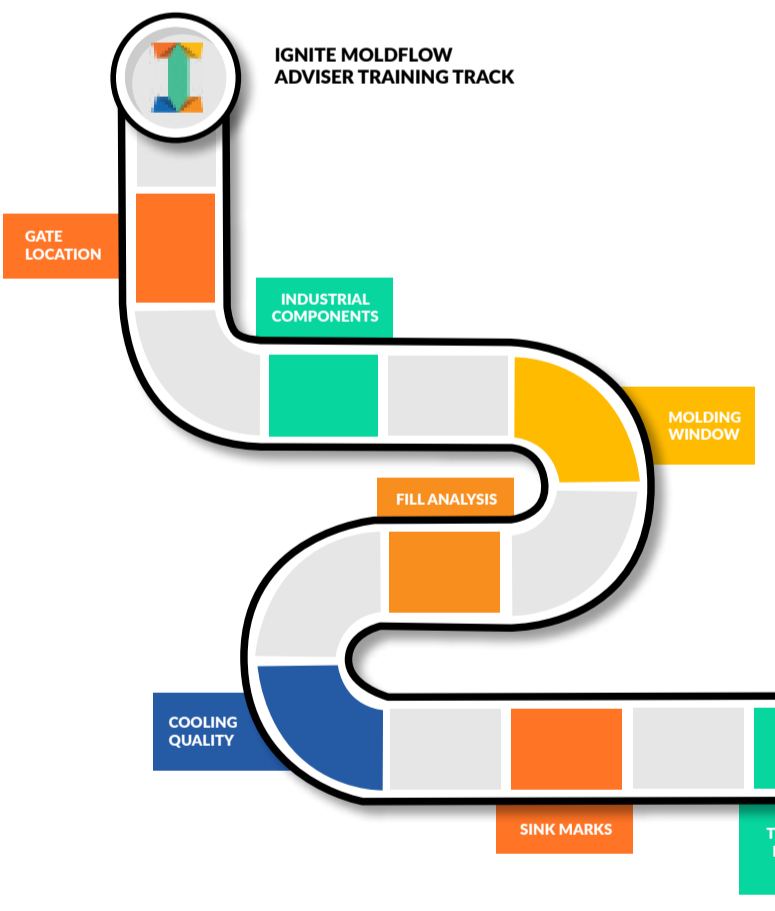
## FeatureCAM AUTOMATED CNC PROGRAMMING SOFTWARE

The Ignite FeatureCAM training track will help students automate programming using interactive technology. This will show students how to visualize safe toolpaths with simulation and program your parts to perform at their best using feature recognition, automation tools, and the programming of a comprehensive range of CNC applications.



## CFD COMPUTATIONAL FLUID DYNAMICS SIMULATION SOFTWARE

The Ignite CFD track will teach students the fundamental concepts critical to success in Autodesk CFD. Learn how to minimize the need for physical prototypes while providing deeper insight into fluid flow design performance as we cover all the basics of the software. Together we explore the entire Workflow, from importing geometry to interrogating and sharing excellent results.



## MOLDFLOW ADVISER PLASTIC INJECTION AND COMPRESSION MOLD SIMULATION SOFTWARE

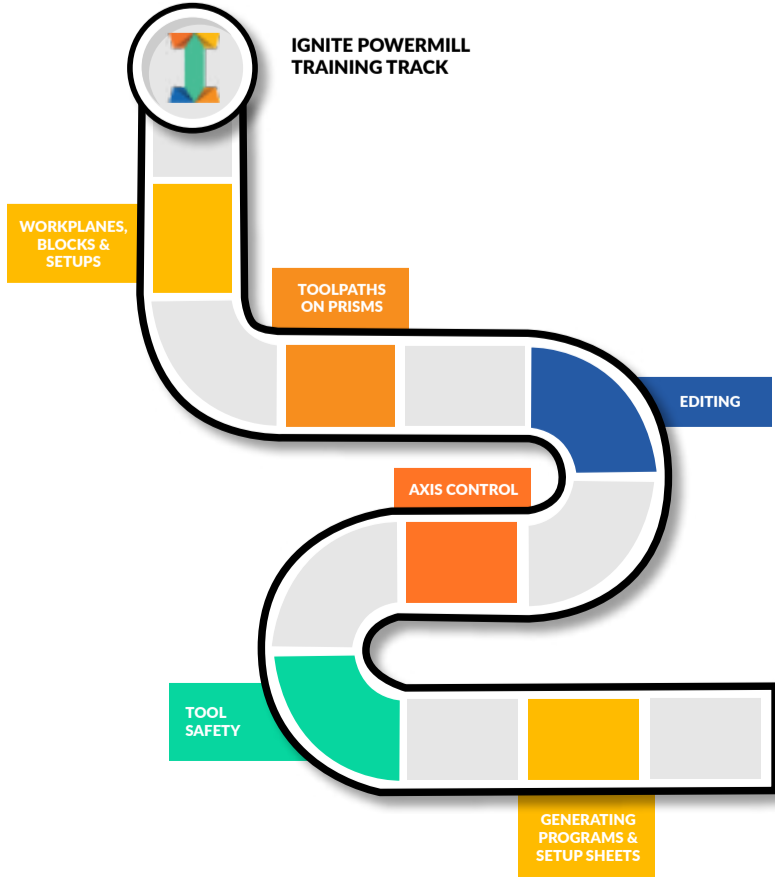
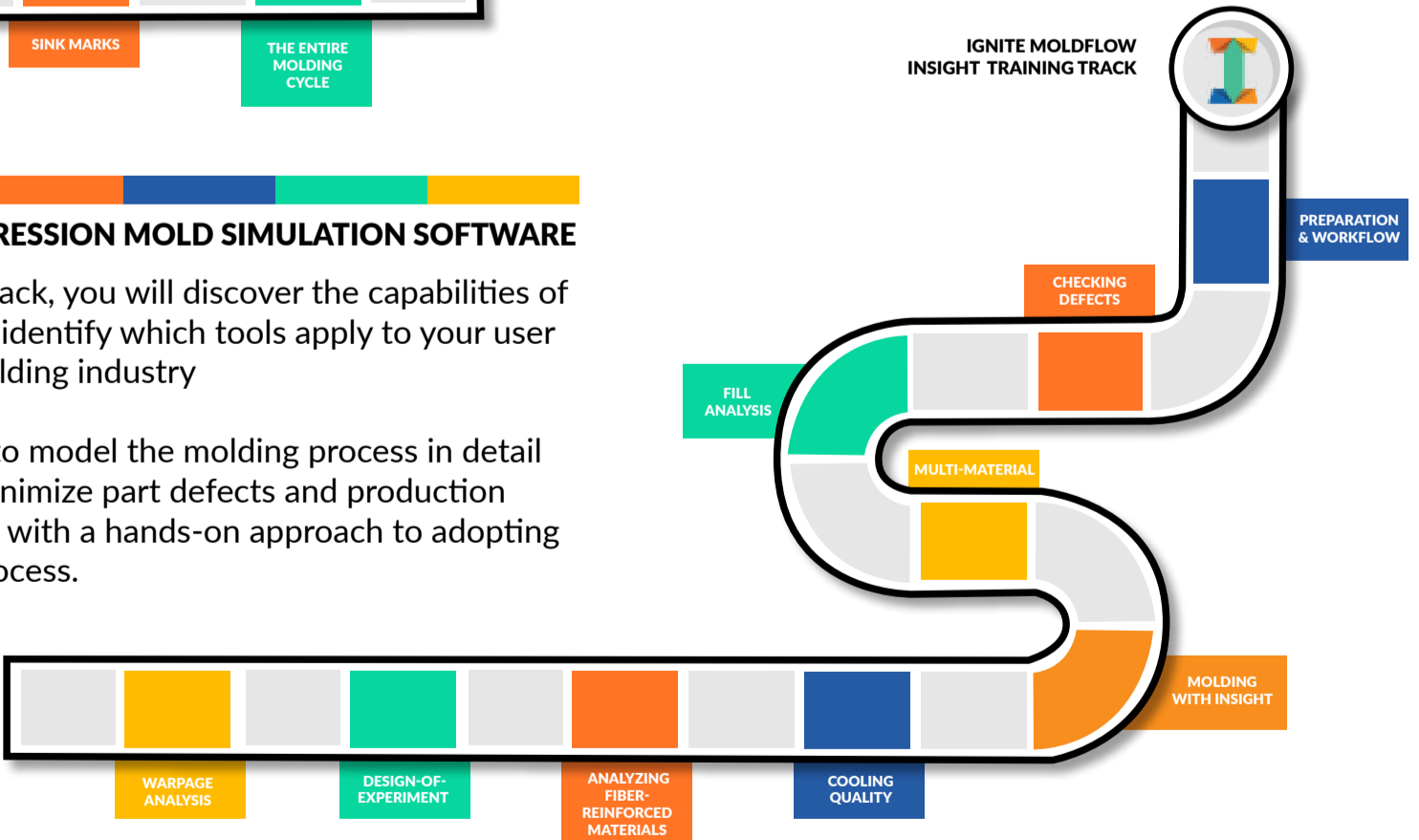
The Moldflow Adviser track introduces students to a theoretical background on injection molding and plastic part design, explaining how best to streamline the process with the user interface and simulation adviser tools.

Our instructors teach you how to model runners and cooling circuits and account for these mold design features in evaluating the processability and dimensional stability of plastic parts. In the end, we finish with lessons in results interpretation and advanced modeling tips.

## MOLDFLOW INSIGHT PLASTIC INJECTION AND COMPRESSION MOLD SIMULATION SOFTWARE

In the Ignite Moldflow Insight track, you will discover the capabilities of Autodesk Moldflow Insight and identify which tools apply to your user persona within the injection molding industry

Our instructors teach you how to model the molding process in detail with various simulations that minimize part defects and production challenges. In the end, we finish with a hands-on approach to adopting Moldflow within your design process.



## POWERMILL EXPERT HIGH-SPEED AND MULTI-AXIS CAM SOFTWARE

The Ignite PowerMill training track was designed to fast-track your part-to-program success. Students will start with the fundamentals of PowerMill and graduate to advanced 5 axis simultaneous programming.

The Ignite PowerMill training package will teach you how to program your parts safely and efficiently with Autodesk's most advanced CAM milling platform.