

**Objective:** The primary objective of this course is to provide students with hands-on exercises of the different features of Autodesk Moldflow Insight Premium and Ultimate (Compression Molding) for Thermoset materials.

**Level:**  
Intermediate

**Duration:** 2 days  
(16 hrs.)

**Who Should Attend:** This course is designed for any intermediate Autodesk Moldflow Premium and Ultimate (Compression Molding) user who will be performing analysis projects of thermosets).

**Pre-requisites:** Before attending this course, students must attend the course titled Autodesk Moldflow Insight Fundamentals.

# Reactive Molding with Autodesk® Moldflow® Insight

## Autodesk® Official Training

### Course Description

In this course, students learn features, functionalities and workflows in Autodesk Moldflow Insight Premium and Ultimate (Compression Molding) through hands-on exercises related to reactive molding processes for thermoset materials.

### Course Outline – Reactive Molding with Autodesk Moldflow Insight

- **Reactive Molding Overview:** Overview of reactive molding definitions and applications
- **Reactive Molding Analysis Steps:** Overview of the steps required to set up reactive molding analyses
- **Thermosets Material Properties:** Discusses important concepts regarding thermoset polymers (molding materials). Material properties used for the simulation
- **Modeling and Mesh Requirements for Tsets:** Discusses what can be modeled for reactive molding analysis. Discusses how the mesh quality influences the analysis of Tsets
- **Process Settings for Tsets:** Discusses in detail all the advanced options used to run a reactive molding analysis. Covers all 3D solvers, Midplane and Dual Domain capabilities
- **Results Interpretation and Customization for Tsets:** Discusses results manipulation and general interpretation. Practice concentrating on display methods for each type of mesh. Exercises covering:
  - Reactive injection compression molding analyses.
  - Resin transfer molding analysis.
  - Venting analysis with reactive materials.
  - Setting mold temperature profiles with reactive materials.
- **Reactive Compression Molding:** Setup and review reactive compression molding analysis results



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