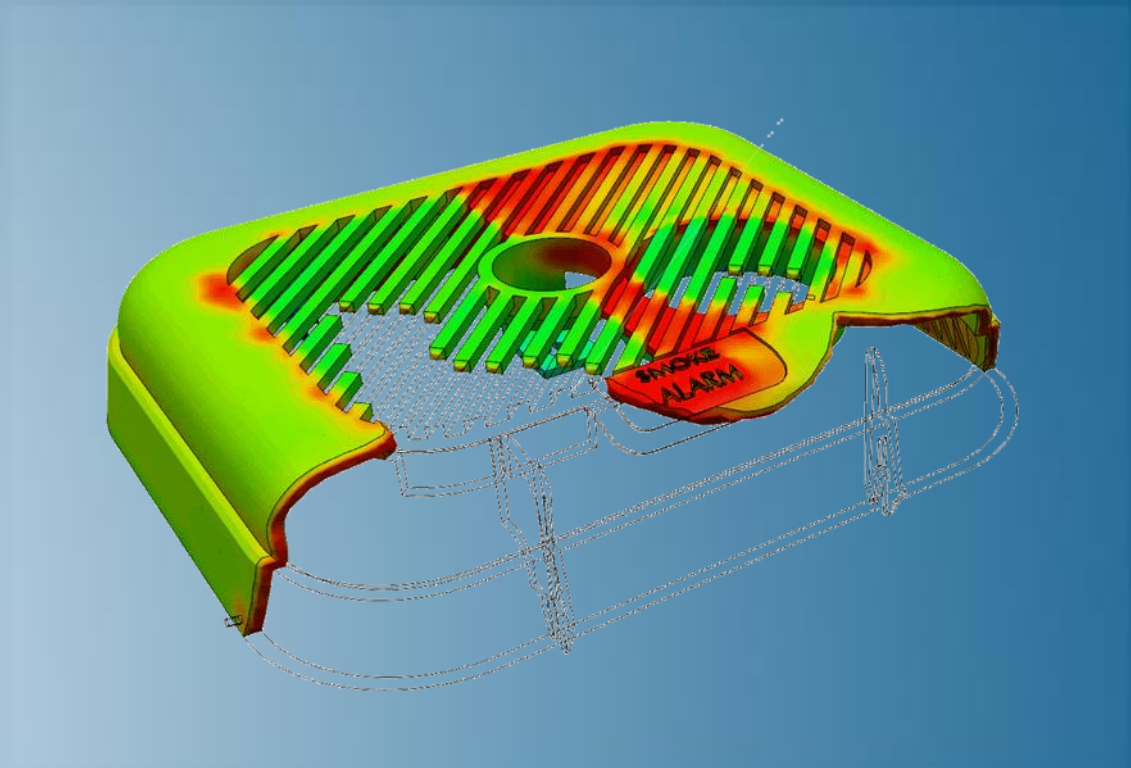


Plastic Part Filling Essentials

R2017x



3DEXPERIENCE[®]



About this Course

Course objectives

Upon completion of this course you will be able to:

- ▶ Perform Mold Filling simulations
- ▶ View and evaluate simulation results

Targeted audience

This course is intended for the following roles:

- ▶ Plastic Mechanical Designer
- ▶ Interior Designer
- ▶ Mold & Tooling Designer

Prerequisites

None.



4 hours

Day 1

- ▶ Lesson 1 Introduction
- ▶ Lesson 2 Simulation Setup for Injection Molding
- ▶ Workshop 1 Simulation Setup for a Smoke Alarm Cover
- ▶ Lesson 3 Postprocessing
- ▶ Workshop 2 Smoke Alarm Simulation, Postprocessing and Modification

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- [> By Course](#)

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- [> By Location](#)
- [> By Course](#)

Live Online Training



- [> Full Schedule](#)

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Revision Status

Lesson 1	4/17	Updated for R2017x
Lesson 2	4/17	Updated for R2017x
Lesson 3	4/17	Updated for R2017x
Workshop 1	4/17	Updated for R2017x
Workshop 2	4/17	Updated for R2017x

Lesson 1: Introduction

Lesson content:

- ▶ Introduction
- ▶ Plastic Part Design Rules
- ▶ **3DEXPERIENCE** Platform Basics
- ▶ Geometry for Simulation



1 Hour

Lesson 2: Simulation Setup for Injection Molding

Lesson content:

- ▶ Plastic Part Filling Overview
- ▶ Materials
- ▶ Simulation Setup
- ▶ Injection Location
- ▶ Feature Manager
- ▶ Mesh Setup
- ▶ Simulate
- ▶ Workshop Preliminaries



1 hour

Workshop 1: Simulation Setup for a Smoke Alarm Cover

In this workshop, you will create a simulation setup for the three-dimensional model of the Smoke Alarm top cover shown below.

After completion of this exercise, you will be able to:

- a. Create the simulation setup steps for Plastic Part Filling
- b. Define an injection location.
- c. Set up a mesh for a given model



30 minutes

Lesson 3: Postprocessing

Lesson content:

- ▶ Job Monitoring
- ▶ Results Visualization Basics
- ▶ Injection Molding Results
- ▶ Simulation Modifications



1 hour

Workshop 2: Smoke Alarm Simulation, Postprocessing and Modification

In this workshop, you will run, monitor and postprocess the Smoke Alarm top cover simulation. After reviewing the simulation results you will modify the scenario and re-run the simulation to examine the changes.

After completion of this exercise, you will be able to:

- a. Run a simulation for Plastic Part Filling.
- b. View the results.
- c. Modify the scenario and compare results.



30 minutes