

 **SOLIDWORKS** Simulation Essentials**OVERVIEW**

PREREQUISITES: Knowledge of SOLIDWORKS and basic mechanical engineering concepts is recommended.

DESCRIPTION: This SOLIDWORKS Simulation Essentials class provides a first look at the basics of Finite Element Analysis (FEA).

LESSON 1:

Introduction and the Analysis Workflow

LESSON 2:

Stress Singularities and Mesh Controls

LESSON 3:

Working with Assemblies and Interactions

LESSON 4:

Working with Symmetrical Models

LESSON 5:

Creating Connectors in Assemblies

LESSON 6:

Introducing Shell Elements

LESSON 7:

Introducing Beam Elements

LESSON 8:

Working with Mixed-Mesh Models

LESSON 9:

Design Studies

LESSON 10:

Thermal Stress Analysis

LESSON 11:

Special Topics