



AC/DC Electromagnetics Simulations



SciEngineer's training courses are designed to help organizations and individuals close skills gaps, keep up-to-date with the industry-accepted best practices and achieve the greatest value from MathWorks® and COMSOL® Products.

AC/DC Electromagnetics Simulations

If you want to quickly get up to speed on using COMSOL Multiphysics® for low-frequency electromagnetics simulations, this is the course for you. The AC/DC Modeling course will provide you with a comprehensive introduction to the AC/DC Module. During the 2-days course, you will learn the tools needed for modeling of resistive and capacitive devices, coils, magnets, motors, electromagnetic actuation, and other areas. The coupling of electromagnetic fields to other physics, such as heat transfer and structural mechanics, will also be covered.

The goal of this course is to immerse you in all the main aspects of using COMSOL Multiphysics® and the AC/DC Module, so that you feel comfortable working with the software. You will leave the course feeling confident that you are correctly solving your electromagnetics problems.

Suggested Background

This course assumes some familiarity with the basic concepts of electrical engineering. We recommend that those new to COMSOL Multiphysics® take the COMSOL Multiphysics® Intensive course prior to attending this class.

Topics Include

- Fatigue analysis, including Multiphysics effects such as thermal fatigue
- Magnets and Coils
- Induction and Electromagnetic Forces



**Expand
your
knowledge**

