



This is a process based course which will teach students how to analyze and test their designs utilizing the robust energy model environments in Autodesk® Ecotect Analysis.™ Students will have a solid understanding of how to successfully model and analyze their designs utilizing Ecotect software. This class will teach students the essentials of the Ecotect environment including internal Ecotect modeling, importing from CAD programs, navigation and setting up basic thermal, solar and day lighting analysis.

**Prerequisites:** Understand how to use CAD software, use of 'F' keys (F1-F12) and basic knowledge of the Windows operating systems is required (Windows 2000, XP or Vista). An understanding of some of the basic concepts of sustainable design as well as knowledge of Revit will greatly enhance the course for those wishing to attend. Revit is helpful, but not required.

**Register Online:** [Click here.](#)

**Autodesk**  
Authorized Training Center

Visit [www.ideateinc.com](http://www.ideateinc.com) for a complete class schedule.  
Or call our Training Department at 888.662.7238.

### Training Facilities

San Francisco

San Jose

Sacramento

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Seattle

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### Course Objectives

To help Architects/Energy Analysis Teams to understand how the software works, why the energy analysis answers are important, and the purpose the analysis serves.

Help understand good workflow techniques.

Export from Revit to continue the information flow between BIM model and energy analysis.

Provide step-by-step exercises to help the student understand the software and its processes.

To provide students with fundamental knowledge to be able to use Ecotect on projects (leverage BIM model and energy modeling from scratch).

### After completing this course, students will be able to:

Model in Ecotect, import from Revit, import from .dxf and other CAD formats

Obtain information from the software and understand what is needed prior to starting Site/Solar Access Analysis, Thermal Shading Analysis and Light Analysis (Daylight and Artificial)

### Who Should Attend

This is an entry level course for Architects and Designers and anyone interested in sustainable design analysis.

### Course Outline

#### Day 1

#### Getting Started

Terms and Concepts  
User Interface  
Navigation  
Setting up your project  
Setting up your preferences  
Finding and downloading weather data

#### Display and View Settings

Creating views  
3D Editor and Visualization  
Tab Settings and Options  
Analysis View and Report Settings

#### Modeling Basics

Creating Zones  
Object creation: walls, partitions, floors, etc.  
Inserting doors and windows  
Modifying objects  
Nodes and Lines

### Importing datasets

Importing from Revit  
Importing from AutoCAD and AutoCAD Architecture  
Do's and Don'ts of imported datasets

#### Day 2

#### Getting Started with Analysis

Shades and Shadows  
Shadow Range  
Sun Path Diagrams  
Solar Projection  
Solar Exposure

#### Using Analysis Wizards from Ecotect

Looking at Thermal Comfort  
Designing Shading Devices  
Fundamental Lighting  
Analysis for daylight and artificial light levels  
Right to Light Analysis