Solid Edge Training Curriculum
Solid Technologies, Inc.

Last updated: November 2002

General Information

Companies that want to be leaders in their market need to take advantage of the advanced CAD tools Solid Edge has to offer for increased design productivity, improved product quality, and better communication. Because of this, Solid Technologies, Inc. offers a complete curriculum of Solid Edge training courses that will allow users to take advantage of these tools.

The curriculum starts with **Solid Edge Quickstart Training Course** for the entry-level user. The Solid Edge Quickstart Training Course provides users with exposure to the fundamental capabilities of production level solid modeling with Solid Edge. This course gives students the opportunity to observe how Solid Edge is used as a design tool, to ask a certified instructor questions, and discuss how Solid Edge can be used for their company’s applications.

The **Solid Edge Fundamentals Training Course** expands on Quickstart with additional fundamental material and provides the student with hands on laboratories. Each student will receive a set of manuals that covers the course subject matter to take with them for future reference. They will also have available to them a workstation for use during the course.

The **Solid Edge Assembly Training Course** and the **Solid Edge Modeling Strategies Training Course** cover intermediate and advanced level subjects. These courses allow users to take advantage of the extended capabilities of Solid Edge as well as providing insight into more advanced techniques for efficiently developing complicated models and assemblies. Each student will receive a set of manuals that covers the course subject matter to take with them for future reference. They will also have available to them a workstation for use during the course.

<table>
<thead>
<tr>
<th>Solid Edge Training Courses</th>
<th>Level</th>
<th>Minimum Experience</th>
<th>Length</th>
<th>Tuition*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quickstart</td>
<td>Entry</td>
<td>None</td>
<td>1 day</td>
<td>$800 / class</td>
</tr>
<tr>
<td>Fundamentals</td>
<td>Novice</td>
<td>2 mos.</td>
<td>5 days</td>
<td>$1800 / student</td>
</tr>
<tr>
<td>Assembly</td>
<td>Intermediate</td>
<td>6 mos.</td>
<td>3 days</td>
<td>$1100 / student</td>
</tr>
<tr>
<td>Modeling Strategies</td>
<td>Advanced</td>
<td>1 yr.</td>
<td>3 days</td>
<td>$1100 / student</td>
</tr>
</tbody>
</table>

* The Solid Edge Quickstart Training Course is typically held at the customer’s facility. Due to the limited time available to answer questions, the recommended maximum class size is 8 students. The remaining courses are priced according to the student cost to attend at the Solid Technologies, Inc. facility. Pricing for these courses performed at the customer’s facility is available upon request. Prices are subject to change without notice. Contact Solid Technologies, Inc. for the latest pricing.
Solid Edge Quickstart Training Course

Level: Entry

Course Length: 1 Day

Tuition Fees: $800 per class

Course Structure: Demonstrations and slide presentations.

Introduction
This course provides new Solid Edge users with an opportunity to explore the fundamental tools Solid Edge has to offer for production level solid modeling.

At Course Completion
Students will be familiar with how to utilize Solid Edge to design production level parametric models of parts, sheet metal design, assemblies, detail drawings and document management. They will also be familiar with the Solid Edge user interface, adding features, sketching tools and various modeling techniques.

Agenda:
Lesson 1: Exploring Solid Edge
Lesson 2: 2D Sketches
Lesson 3: Part Modeling
Lesson 4: Creating and Dimensioning Drawings
Lesson 5: Sheet Metal Modeling
Lesson 6: Assembly Design
Lesson 7: Document Management
Solid Edge Fundamentals Training Course

Level: Novice

Course Length: 5 Days

Tuition Fees: $1800 per student

Course Structure: Demonstrations, slide presentations, and student lab.

Course Materials: Set of 2 manuals with course material and lab.

Introduction
This course will focus on making the user aware of the potential uses of production level solid modeling. The focus of this course is on the fundamental skills and concepts central to the use of Solid Edge.

At Course Completion
Students will have learned how to utilize Solid Edge to design production level parametric models of parts, sheet metal design, assemblies, detail drawings and document management. They will also be familiar with the Solid Edge user interface, adding features, sketching tools and various modeling techniques.

Agenda:
Day 1
Lesson 1: Exploring Solid Edge
Lesson 2: The Foundation of Solid Modeling
Lesson 3: Introduction to the Profile Environment

Day 2
Lesson 4: Primary Features
Lesson 5: Treatment Features

Day 3
Lesson 6: Sheet Metal Features
Lesson 7: More Sheet Metal

Day 4
Lesson 8: Assembly Design
Lesson 9: More Assembly Design

Day 5
Lesson 10: Creating Drawings of 3D Models
Lesson 11: Dimensions and Annotations
Lesson 12: Document Management
Solid Edge Assembly Training Course

Level: Intermediate

Course Length: 3 Days

Tuition Fees: $1100 per student

Course Structure: Demonstrations, slide presentations, and student lab.

Course Materials: Manual with course material and lab.

Introduction
This course is designed to teach the user how to create assemblies from Solid Models. The class covers all of the commands available in the Assembly environment, and it teaches both top-down and bottom-up assembly design.

At Course Completion
Students will have learned how to apply all of the relationships used to construct assembly models. They will have learned how to assemble and edit parts that already exist, and how to create new parts within an assembly; how to create exploded views, cutaway views, simplified views, and custom views; how to manage very large assemblies; how to verify assembly integrity; how to model motion with Simply Motion; how to create families of assemblies; how to model tubing with XpressRoute; and how to work with weldments.

Agenda:
Day 1
Lesson 1: Assembly Methods & Relationships
Module 2: Additional Relationships
Lesson 3: Editing Assemblies

Day 2
Lesson 4: Display Tools
Lesson 5: Exploded and Cutaway Views
Lesson 6: Managing Assemblies

Day 3
Lesson 7: Designing in the Assembly
Lesson 8: Design Verification
Lesson 9: Rendering Assemblies
Lesson 10: XpressRoute
Solid Edge Modeling Strategies Training Course

Level: Advanced

Course Length: 3 Days

Tuition Fees: $1100 per student

Course Structure: Demonstrations, slide presentations, and student lab.

Course Materials: Manual with course material and lab.

Introduction
This course is designed to take the experienced Solid Edge users to a higher level of productivity. Learn the workflows and modeling tools that make modeling cast, machined, sheetmetal, and plastic parts more productive. The instructor will introduce areas of focus for each modeling workflow and then reinforce this topic with well-designed lab exercises.

At Course Completion
Students will have improved their overall Solid Edge modeling skills. They will have learned the finer points of profile/sketch creation, learned to classify and the breakdown a part, and then apply the necessary workflow within Solid Edge to aid in efficiently modeling the part. Also learned would be the more detailed use of features such as, variable table, rounding, patterning, divide part, add draft, and many more. Overall, the student will be able show an increase in productivity by more efficient use of Solid Edge thus reducing the design cycle time.

Agenda
Day 1
Lesson 1: Fundamentals Review
Lesson 2: Modeling Tool Maximization

Day 2
Lesson 3: Foundation to Solid Modeling
Lesson 4: Principles of Sheet Metal Modeling
Lesson 5: Principles of Molded Part Modeling

Day 3
Lesson 6: Principles of Extruded Part Modeling
Lesson 7: Toolbox Extra’s