Manikin using Pro/ENGINEER Wildfire 4.0

Overview

Course Code  SAB-CEK-2872

Course Length  4 Hours

This course is designed for Pro/ENGINEER users who want to become proficient with the new Manikin extension as quickly as possible. Pro/ENGINEER Manikin represents a new human modeling solution specifically for the needs of product designers, providing anthropometry support to all Pro/ENGINEER users. Manikin provides human-centric information (such as reach envelopes, vision cones, and range of motion) directly embedded into the user’s design environment tools. In this course, you will focus on learning core-modeling skills. Topics include inserting manikins into an environment, manipulating manikins, applying constraints between the manikin and its environment, understanding default behavior, capturing manikin postures, and validating the design environment from an ergonomics/human factors standpoint. After completing the course you will be well prepared to validate your product design environments using Pro/ENGINEER Manikin.

Course Objectives

- Insert manikins into an environment and perform basic manipulation.
- Apply constraints to the inserted manikin.
- Understand manikin operations and perform advanced manipulation that includes manikin/environment interaction.
- Validate the design environment.
Prerequisites

- Introduction to Pro/ENGINEER Wildfire 4.0

Audience

- This course is intended for product designers, industrial/conceptual designers, design/manufacturing engineers, and ergonomists/human factors experts. People in related roles will also benefit from taking this course.
# Table of Contents

<table>
<thead>
<tr>
<th>Module</th>
<th>1</th>
<th>Manikin Setup and Basic Manipulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module</td>
<td>2</td>
<td>Constraints</td>
</tr>
<tr>
<td>Module</td>
<td>3</td>
<td>Manikin Operations and Advanced Manipulation</td>
</tr>
<tr>
<td>Module</td>
<td>4</td>
<td>Validating the Design Environment</td>
</tr>
</tbody>
</table>