Introduction to Creo Elements/Direct 18.1 Parts Library

Overview

Course Code WBT-3947-0
Course Length 8 Hours

In this course, you will learn about the Part Library module for Creo Elements/Direct 18.1 Modeling. You will be introduced to standard part libraries and screw connections. You will also learn how to assign material properties to parts and assemblies and are introduced to drill holes, shaft related operations, and Annotation tools.

At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives

• Understand and use the standard part library
• Understand and use screw connections
• Create parameterized drilled and center holes
• Assign material properties to parts and assemblies
• Attach thread attributes to shafts and hubs
• Create tooth shafts and hubs
• Add feather keys to design
• Utilize the Part Library functions in Annotation

Prerequisites

• Must be able to interpret engineering drawings, and have an understanding of drafting concepts
• Must have at least two months of current experience with Creo Elements/Direct Modeling
• Prior use of another 3-D CAD system is helpful, but not required

Audience

• This course is intended for designers, mechanical engineers, industrial designers, illustrators, and tooling designers. People in related roles will also benefit from taking this course.
# Table of Contents

<table>
<thead>
<tr>
<th>Module</th>
<th>1</th>
<th>Introduction to Part Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module</td>
<td>2</td>
<td>Standard Parts in Part Library</td>
</tr>
<tr>
<td>Module</td>
<td>3</td>
<td>Screw Connections with Part Library</td>
</tr>
<tr>
<td>Module</td>
<td>4</td>
<td>Materials in Part Library</td>
</tr>
<tr>
<td>Module</td>
<td>5</td>
<td>Threads, Holes, Feather Keys, Tooth Shafts, Retaining Rings</td>
</tr>
<tr>
<td>Module</td>
<td>6</td>
<td>Part Library with Annotation</td>
</tr>
</tbody>
</table>