LK LearnKey

Domain 2 Lesson Plan

Domain 2 - Sketch [approximately 5 hours of videos, labs, and projects]				
Lesson	**Lesson Topic and Subtopics**	**Objectives**	**Exercise Labs**	**Workbook Projects and Files**
Pre-Assessment Assessment time - 00:30:00	Sketch: Pre-Assessment			
Lesson 1 Video time - 00:21:09 Exercise Lab time - 00:16:00 Workbook time - 00:30:00	**Create and Modify a Sketch Part 1** Sketch tools for the Task Create Shapes Create a Sketch Sketch Element Types and Displays Sketch Palette Options Modify Distances	2.1 Create and modify a sketch 2.1.1 Select the appropriate sketch tool(s) for the task 2.1.2 Create a sketch 2.1.3 Control sketch element type and sketch display properties 2.1.3.1 Sketch Palette options (linetype, sketch grid, snap, etc.)	Opening Files Drawing Rectangles Creating a Mirror Rectangular Patterns	Sketch Tools for the Task – pg. 17 1.1 Sketch Creation (Toy Shapes).f3d Create a Sketch – pg. 18 2.1 Creating Drawing Views (Steamroller).f3d Sketch Element Types and Displays – pg. 19 N/A
Lesson 2 Video time - 00:21:15 Exercise Lab time - 00:12:00 Workbook time - 00:20:00	**Create and Modify a Sketch Part 2** Project Geometry Create 3D Bodies Edit a Sketch Chamfer Tool Trim Tool Offset Shapes Move/Copy Tool Emboss Text	2.1.4 Project geometry from an existing body onto a sketch 2.1.5 Edit a Sketch 2.1.5.1 Move, Copy, Trim, Extend, Offset, Mirror, Fillet, Chamfer, Break, and patterns 2.1.5.2 Insert text into an active sketch	Associative Relationships Fillet Corners Adding Text	Project Geometry – pg. 21 1.5 Project Edges (Toy Shapes).f3d Edit a Sketch – pg. 22 1.4 Edit a Sketch (Toy Shapes).f3d 2.1 Insert Text (Toy Shapes).f3d
Lesson 3 Video time - 00:24:22 Exercise Lab time - 00:24:00 Workbook time - 00:35:00	**Sketch Constraints and Dimensions** Sketch Constraints Constraint Types Edit Dimensions to Sketch Geometry Dimension Around Shapes Parametric Model Use Parameters Add Additional Parameters Modify Parameters	2.2 Apply sketch constraints and dimensions 2.2.1 Determine which sketch constraints to apply 2.2.1.1 Add and remove constraints 2.2.1.2 Understanding auto-constraints 2.2.2 Apply sketch constraints and dimensions 2.2.2.1 Create a fully constrained drawing 2.2.3 Use design parameters to create a parametric model	Applying Constraints Set Dimensions Create User Parameters Reference User Parameters Reference Parameters in New Parameters Editing Parameters	Sketch Constraints – pg. 24 1.3 Constraint Selection and Creation (Toy Shapes).f3d Edit Dimensions to Sketch Geometry – pg. 25 1.2 Sketch Creation (Toy Shapes).f3d Parametric Model – pg. 26 N/A
Post-Assessment Assessment time - 01:00:00	Sketch: Post-Assessment			