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INSTRUCTOR GUIDE

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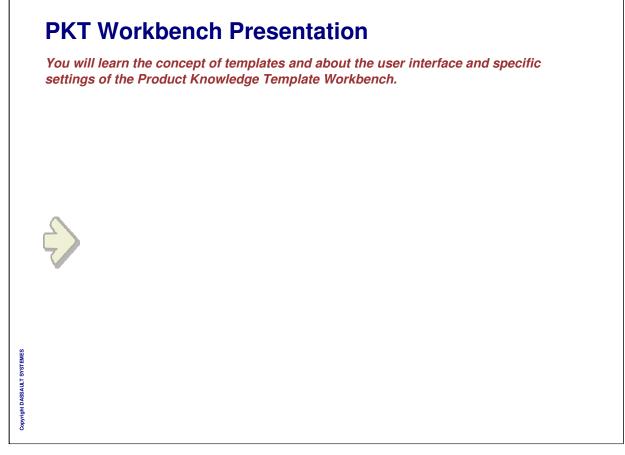
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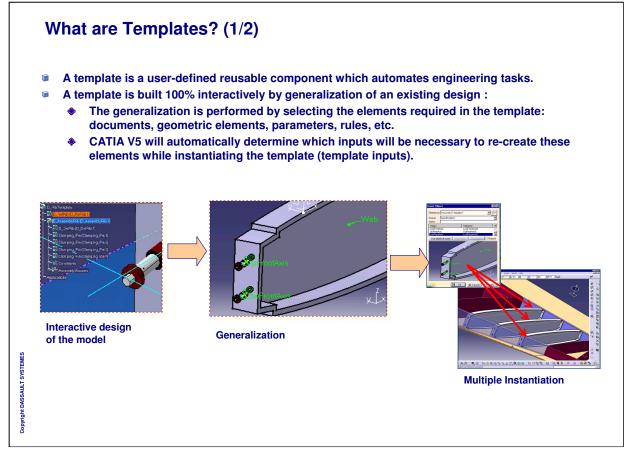
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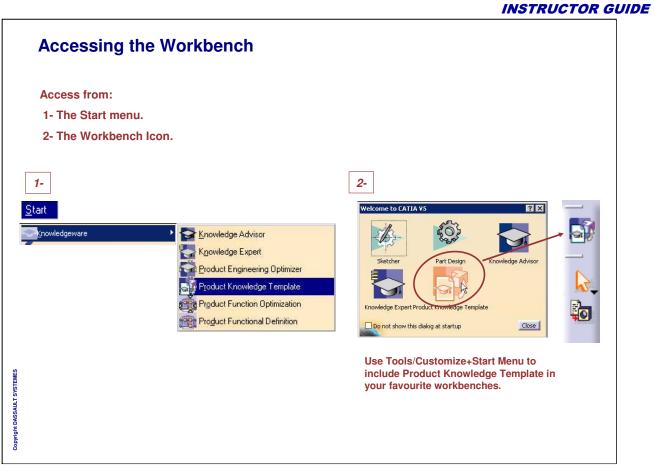
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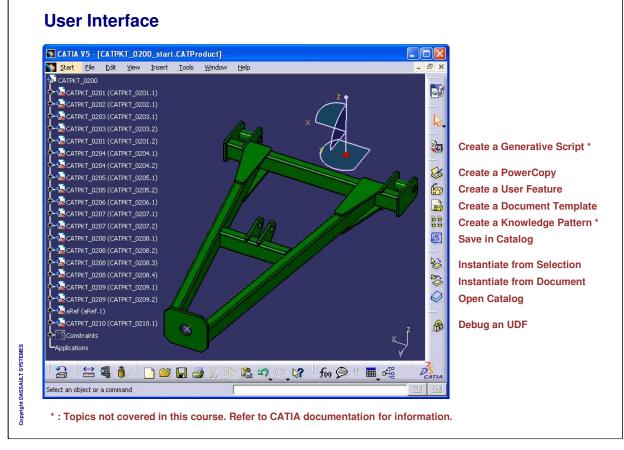


1	Hee	ers can create three types of templates:
	٥٥٤	User Feature/PowerCopy: A collection of CATIA features, including knowledge features, that can be reused in a part's design.
		 Allows customers to manipulate their own semantic objects in place of V5 standard objects.
		 Once instantiated, users get a black box (in case of UDF) behaving like any other feature with published parameters that can be edited.
	۲	Part Template: A part and its associated documents (drawing, analysis, process) can be reused inside products.
		 Once instantiated, the part is duplicated and you get an independent component which is adapted to the new context.
	۲	Assembly Template: A whole assembly and its associated documents can be reused inside products.
		 Once instantiated, the assembly is duplicated and the embedded parts can be independent or as a reference to the original one.

Example of Templates ASSEMBLY TEMPLATE Whole assembly duplication mechanism with 8 associated documents Parts in Instance (copy) or Reference mode **Connecting Rod** PART TEMPLATE Part duplication mechanism Part number generation (New from) ۲ Associated documents can be part of the template Ű definition (drawing, analysis) Parallel Key **POWERCOPY / UDF** Set of features including knowledge ۱ features **(** Input selection yright DASSAULT SYSTEMES **Published parameters valuation** 1 Icon, Grab screen **(Center Hole**



- This is a series of Job aids to present the WorkBench during the introduction lesson.
- This series is made of five Jobaids:
- Accessing WorkBench
- Exploring The User Interface
- **Checking User Settings**
- Seeing Terminology
- Understanding the general process.
- If you think that some are not necessary for the product you present, just remove them.
- 1/ Modify the following example
- 2/ Keep the 'Job Aids' icon on the top and the default title for each job aids
- 2/ No other recommendations besides the general ones



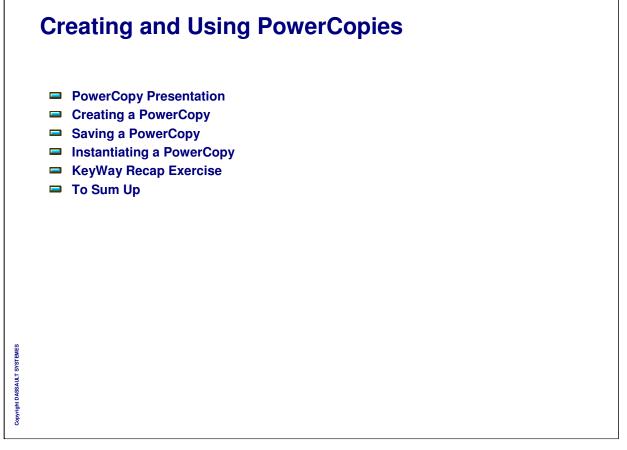
0	lay General Settings:		
	ools> Options> General> Parameters and Measure, in the 'Knowledge' Tab, k the corresponding option if you need:		
(1)	The value of the parameter to appear in the tree.		
2)	The formula driving the parameter to appear in the tree beside the parameter.		
3)	To work with non-latin characters. Otherwise, parameter names have to be renamed in latin characters when used.		
	Coptions Knowledge Units Knowledge Environment Report Generation General General Compatibility Compatibili		

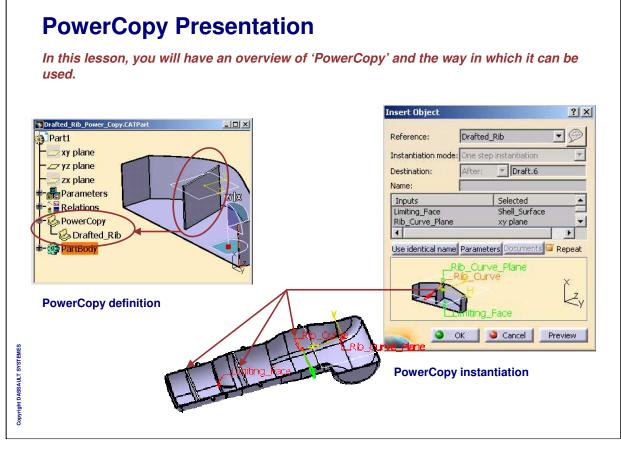
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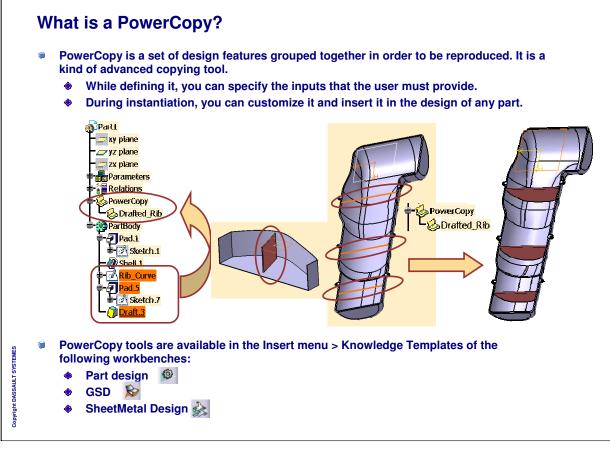
ang	juage Settings:		
	ools> Options> General> Parameters and Measure in the 'Knowledge ronment' tab:		
I)	Check this option to have access to more language libraries. Which means more functions will be available for the Edition of Relations.		
2)	Check this button to load ALL the available libraries.		
3)	Otherwise, select libraries packages in the list and use the arrows to add or retrieve them to the list of libraries to be loaded.		
	Options Knowledge Units Knowledge Environment Report Generation General Image Load extended language libraries Image Image Compatibility Image Image Image Image Compatibility Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Im		

art Infrastructure	Settings:	
Tools> Options> ption if you need:	> Infrastructure> Part Infrastructure :	e, check the corresponding
) The parameter	rs of the part to be displayed in the speci	ifications tree.
) The relations of	of the part to be displayed in the specific	cations tree.
Infrastructure Infrastructure Infrastructure Infrastructure Infrastructure Infrastructure Infrastructure Infrastructure	External References Constraints Constraints Parameters Relations Expand sketch-based feature nodes at creation Display In Geometry Area Only the current operated solid Only current body	Wheel_Rim

			INSTRUCTOR G
User Settings (4/4)			
Product Structure Settings:			
In Tools> Options> Infrastruc options if you need:	ture> Product Structure	e, activate the follo	owing
(1) The parameters of the proc	luct to appear in the specif	ications tree.	
(2) The relations of the produc	t to appear in the specifica	tions tree.	
Options Product Structure General Specification Treat Infrastructure Product Structure Product Structure Infrastructure Aterial Library 1 Aterial Library Parameters Relations Constraints Photo Studio 2 Real Time Rendering Others	Order In Tree Node Name Activated Up ode Down tions Yes Activate Yes Deactivate Yes Yes		LightBulb_Assembly Socket_Assy (Socket_Assy.1) Glass_Bulb (Glass_Bulb.1) Relations Parameters T Constraints Fix.1 (Socket_Assy.1)
tor Notes:			



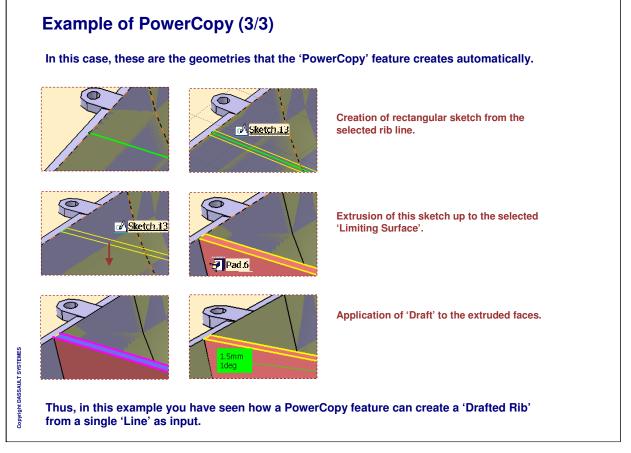


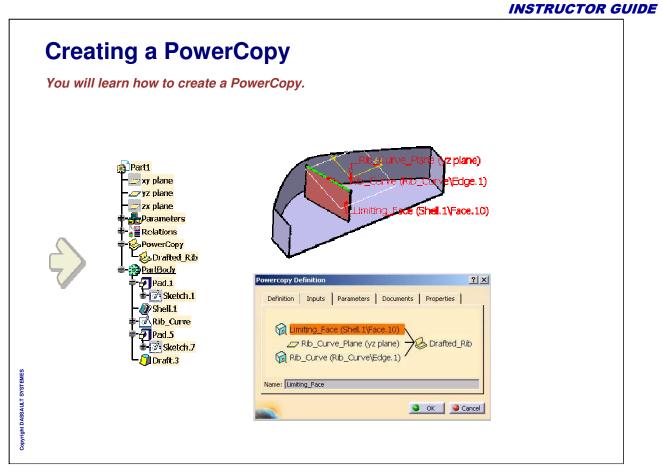


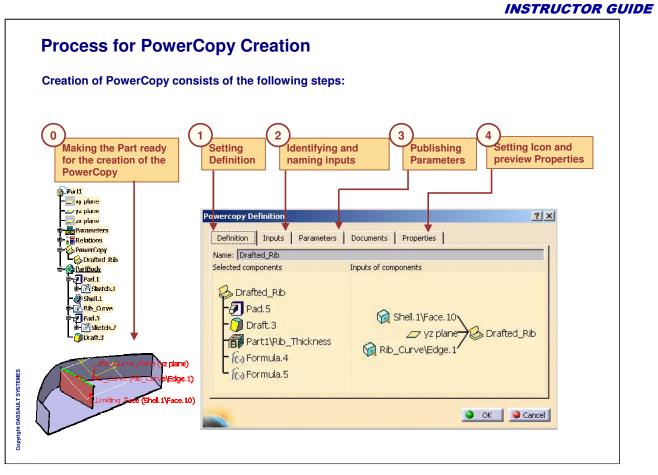
-	PowerCopy (1/3)	
	PowerCopy	1.5mm Ideg
	e want to create a 'PowerCo lane' as an input, and creat	
J	,	
Powercopy Definition	arameters Documents Properties	
Generating Curve _ Rib_Curve _ Rib_Curve _ Rib_Curve (Rib)	Shell.1\Face.10) Plane (yz plane)	2. <u>Curve_Plane (yz plane)</u> Curve (Rib_Curve)(Edge.1) niting_ <u>Face (Sheli:1)</u> Face.10)
Name: Limiting_Face	● OK ● Cancel	

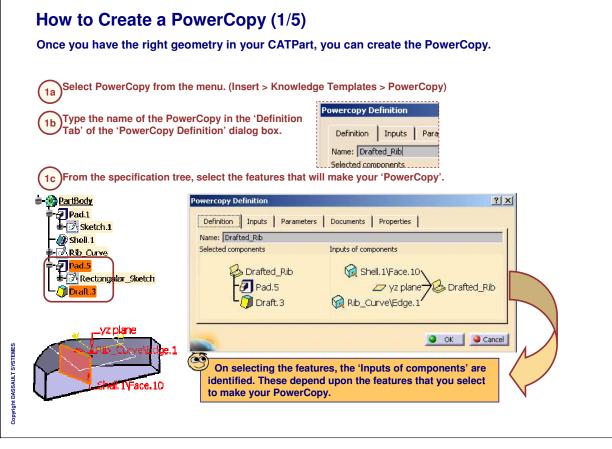
Example of PowerCopy (2/	(3)
Insert Object 🙎 🕺	
Reference: Drafted_Rib Instantiation mode: One step instantiation Destination: After:	During the instantiation of the 'PowerCopy', the user has to select the inputs with respect to the destination part.
Name: Inputs Selected Limiting_Face Shell_Surface Rib_Curve_Plane vy plane Use identical name Parameters Documents Repeat Rib_Curve_Plane Rib_Curve Rib_Curve Rib_Curve Rib_Curve Rib_Curve Rib_Curve Rib_Curve Rib_Curve Rib_Curve Rib_Curve Rib_Curve Rib_Curve Rib_Curve Rib Rib Rib Rib Rib Rib Rib Rib	Limited and the second and the secon
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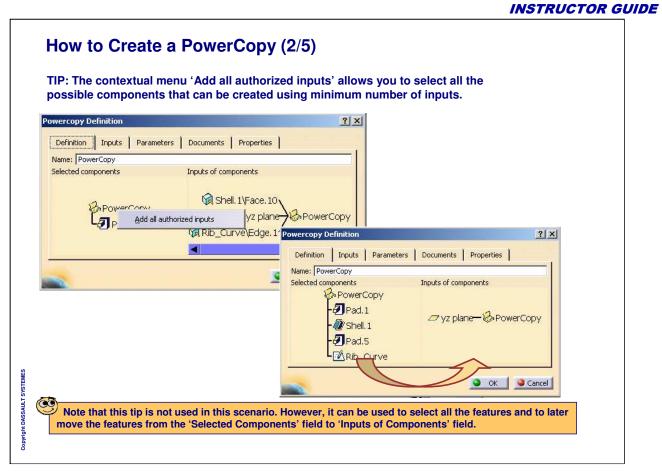
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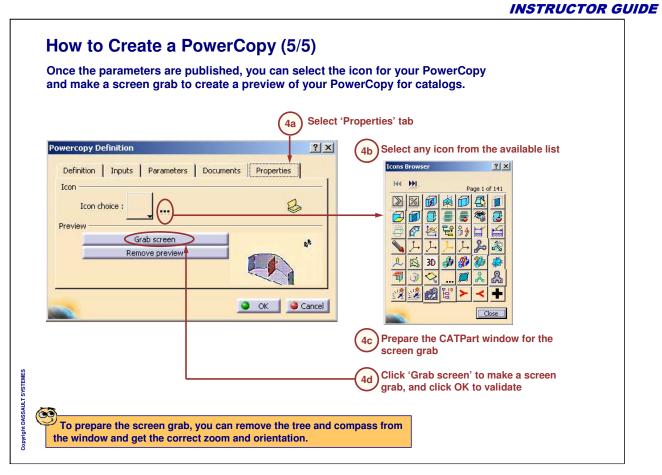




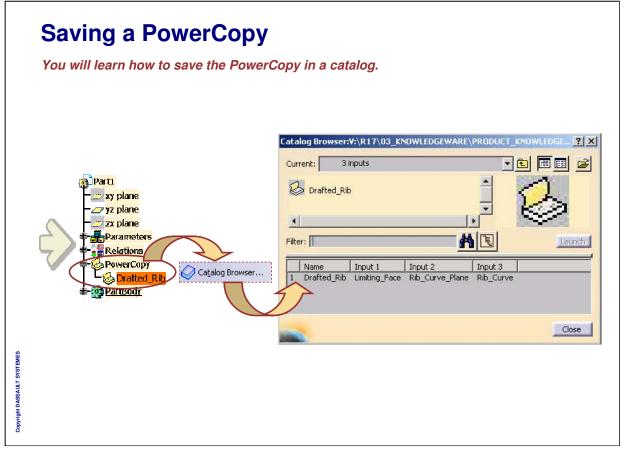


Aft geo	ow to Create a PowerCopy (3/5) ter selecting the features that make the PowerCopy, you co ometric inputs. During instantiation, the user will be promo ometries based on these new names.	npted to select the
In c	our case there are three inputs:	i=- <mark>∰PartBorty</mark> ≑- ∂ Pad.1
Α.	The edge (Edge.1) from 'Rib_Sketch' - > Using this sketch, the F creates the 'Rectangular Sketch'.	PowerCopy
В.	The YZ plane on which the 'Rib_Curve' has been created.	₩ <mark>-[]/ Rib_Curve</mark> ₩- 7] Pad.5
C.	The shell face (Face.10) up to which the 'Pad.5' was extruded.	E Rectangular_Sketch
Let u	us give new names to these inputs from instantiation point of view	V.
	tab vercopy Definition Definition Inputs Parameters Documents Properties Table Definition Inputs Parameters Documents Properties Documents Properties Drafted_Rib Carcel Carcel Carcel	input the inputs, if required New Name: Limiting_Face Limiting_Face Rib_Curve_Plane Rib_Curve Reordering the inputs is sometimes required for displaying the inputs in a specific order in the PowerCopy instantiation dialog box.

	ic inputs you can publish the parameters. During
instantiation, the user can s	specify values for these published parameters.
To publish the parameters,	
	Powercopy Definition
Select Parameters tab	Definition Inputs Parameters Documents Properties
	Avalaible parameters Value Pub Name
	PartBody\Pad.5\Activity true
b) Select the	PartBody\Draft.3\Angle 0.5deg Yes Part1\P PartBody\Draft.3\Angle2 5deg
parameter	PartBody/Draft.3/DraftFitted 0.1mm
	PartBody\Draft.3\Activity true
Check the 'Published'	
option	Published Name: Draft_Angle 0.5deg
	OK Gancel
d If necessary, rename the	
parameter	

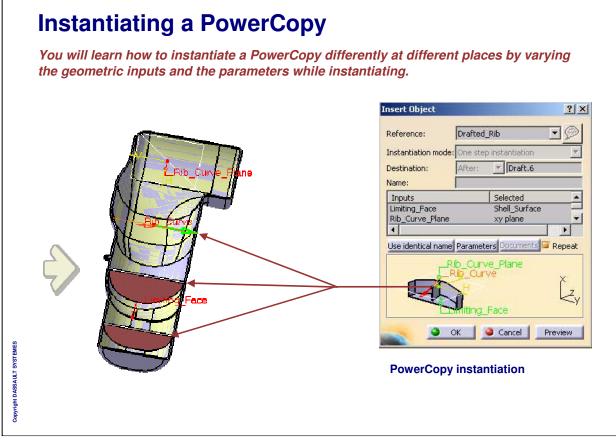






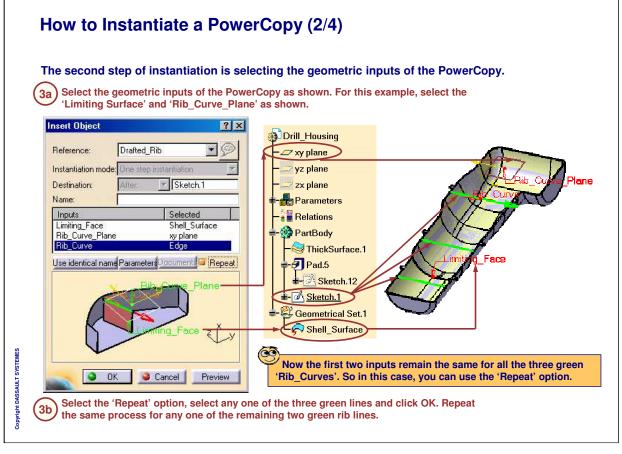
	Saving a PowerCopy
	If you do not save the CATPart containing your PowerCopy, you will not be able to instantiate the PowerCopy.
	You can save the PowerCopy in a new catalog and also in an existing catalog.
	You can also update a catalog which makes reference to the PowerCopies of your CATPart.
Cupyright DASSAULT SYSTEMES	Knowledge Templates Instantiate Erom Document Instantiate From Selection UserFeature Document Template Document Template Instantiate From Selection Instantiate From Selection

INSTRUCTOR GUID
How to Save a PowerCopy in a Catalog
 Save the CATPart containing your PowerCopy. From the menu, select – Insert > Knowledge Templates > Save in Catalog.
 2a Select the 'Create a new catalog' option and click the browse button () to define the path for new catalog. (2b) Select the correct path, type the new name of the catalog and click Save. (The OK button of the 'Catalog
20 Select the correct path, type the new hand of the catalog and check bards. (The of clatter of the catalog 2c Now click OK to the 'Catalog save' dialog box.
Catalog save ? × Catalog name: no catalog defined. Components catalog (.catalog) save in: document for direct access to instantiation. 2a
O Update an existing catalog Use browse to define catalog OK Cancel Save as type: Components Catalog(*.catalog)
Save as type: Components Catalog(".catalog)

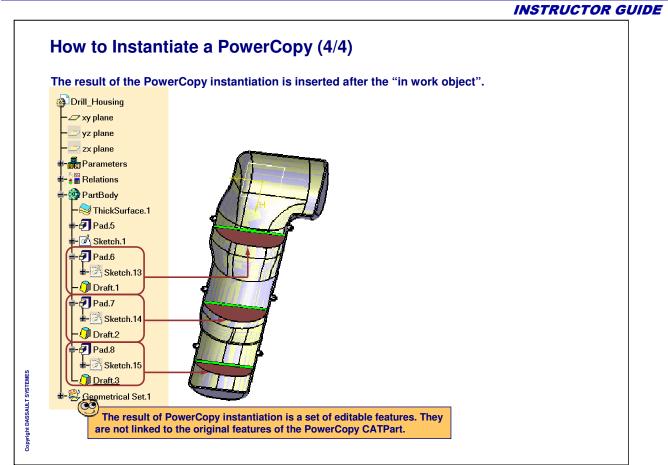


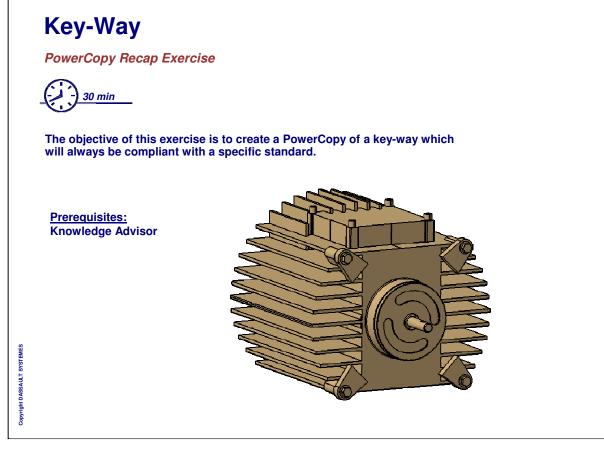
How to Instantiate a PowerCopy (1/4)	
The first step of PowerCopy instantiation is accessing the PowerCopy. You can access it: a) From the CATPart file containing it. b) From a catalog having its reference. Refer CATIA online documentation for more information.	
Before proceeding, please save all the CATIA documents that are attached to this screen to a local folder.	
Open the CATPart in which you want to instantiate the PowerCopy.	
Image: Select: OR Image: Select: OR Image: Select: OR Image: Select: Image: Select: <	
OR Look in: Power_Copy_Instantiation your PowerCopy.	
File Selection Look in: Power_Copy_Instantiation Image: Comparison of the catalog, double-click on 'PowerCopy', then on '3 inputs' and finally on 'Drafted_Rib' to open the instantiation dialog. Image: Comparison of the catalog of the	
Current: Drafted_Rib_Catalog. Current: PowerCopy Current: 3 inputs Image: Complex content of the content o	

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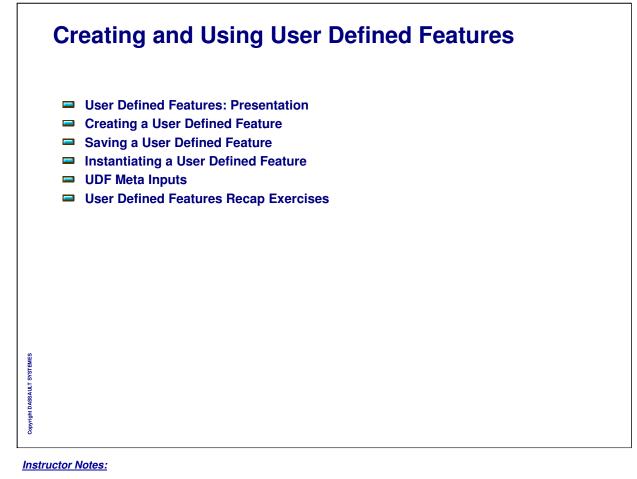


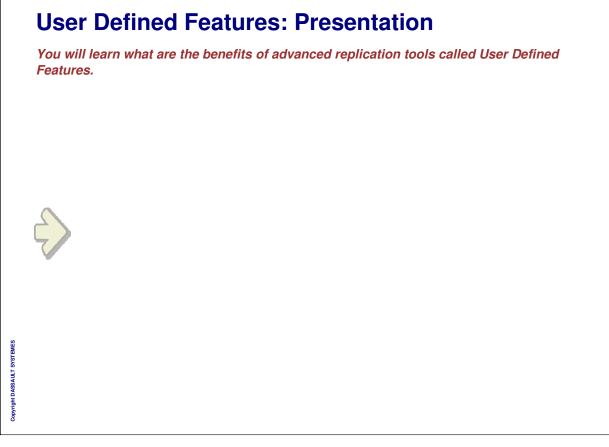
PowerCopy crea	ation.	e parameters that you have published during the
Insert Object Reference: Instantiation mode: Destination: Name: Inputs Limiting_Face Rib_Curve_Plane Rib_Curve Use identical namePa	er Sketch.1 Selected Shell_Surface xy plane Edoe rameter D:current Repeat	

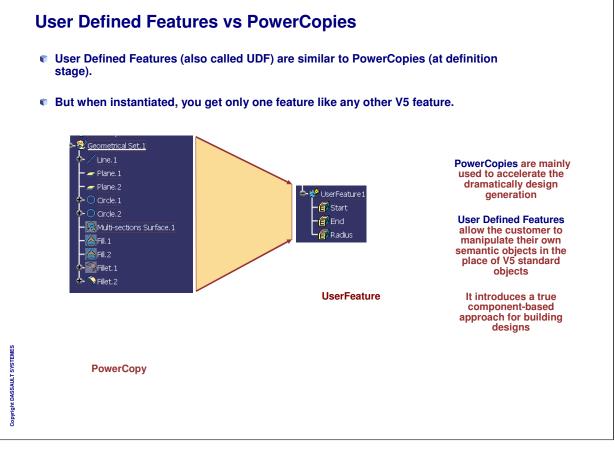


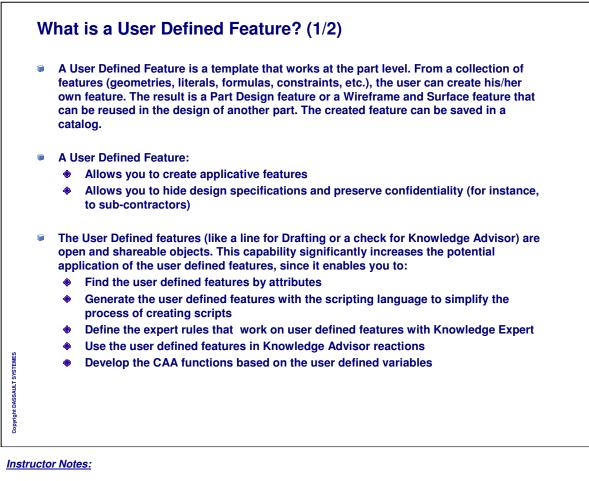


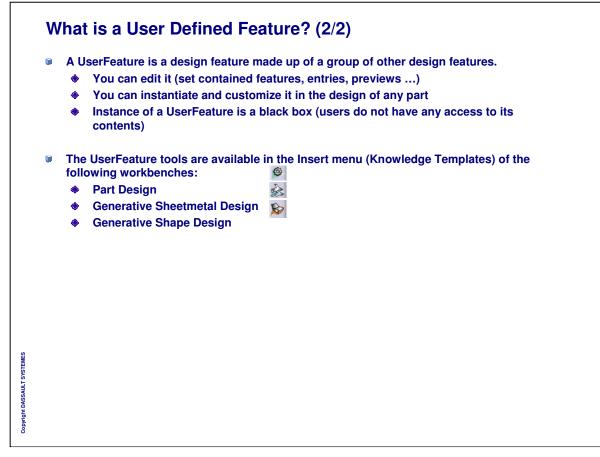
Yoı	I have learned:			
۵	 What is a PowerCopy A PowerCopy is a set of design features grouped together to be reproduced. It is an advanced copy tool. PowerCopy tools are available in the Insert menu in Part design, Wireframe and surface, and Sheet metal design workbenches. 			
	Powercopy Definition ? Definition Inputs Name: FowerCopy Selected components Inputs of components			
	How to create a PowerCopy			
	During creation, you have to set the definition, identify and name the inputs, publish to parameters, choose an icon and preview.			
١	How to save a PowerCopy			
	Saving a PowerCopy is necessary. If not saved, a PowerCopy can never be instantiate This can be done through Insert menu > Advanced replication tools > Save in catalog.			
۲	How to instantiate a PowerCopy			
	For instantiation, you have to first select a previously created PowerCopy. This can be done in two ways. The first way is through a catalog, and the second way is from Inse menu > Instantiate from document.			

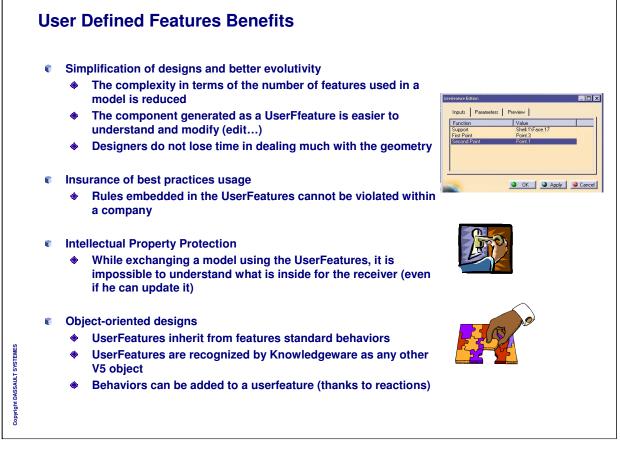


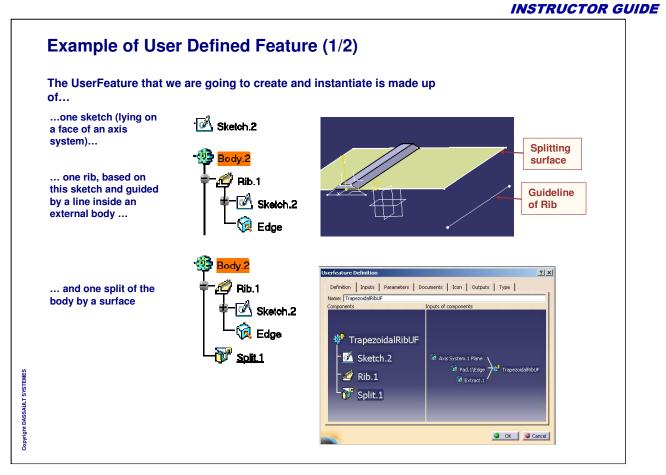


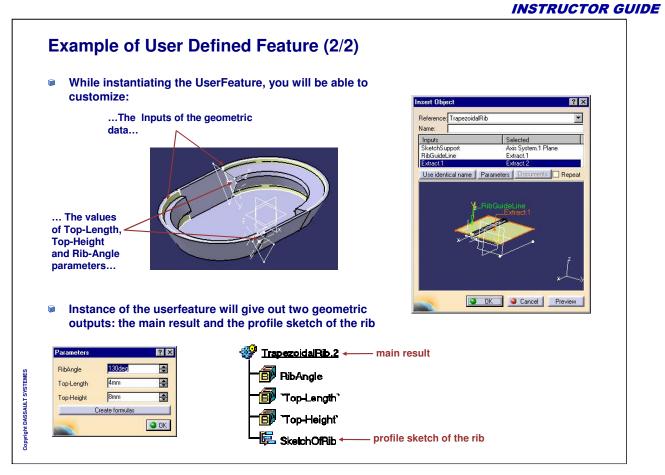


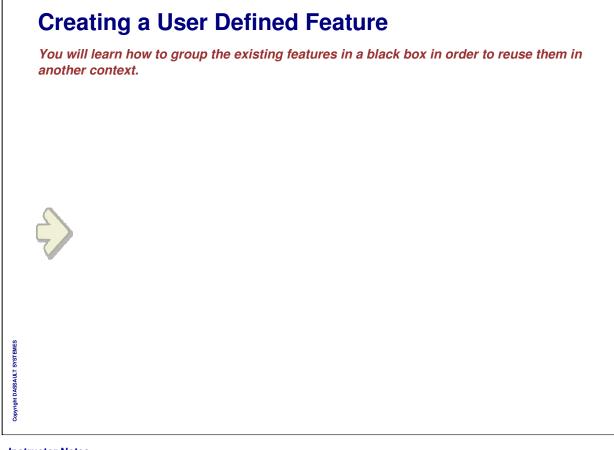




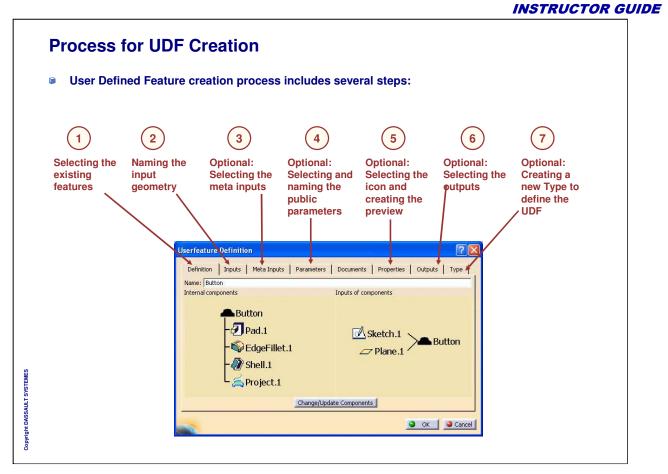


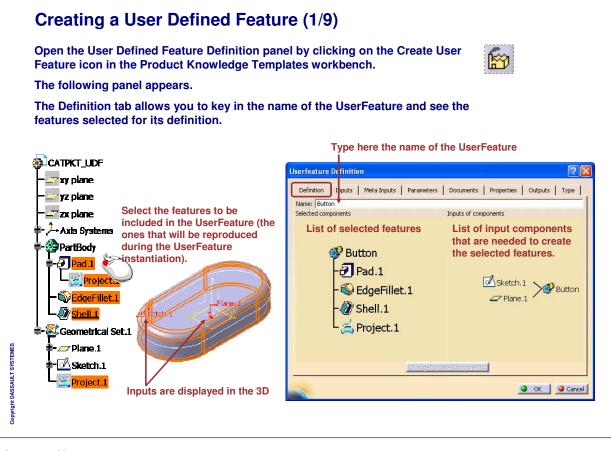


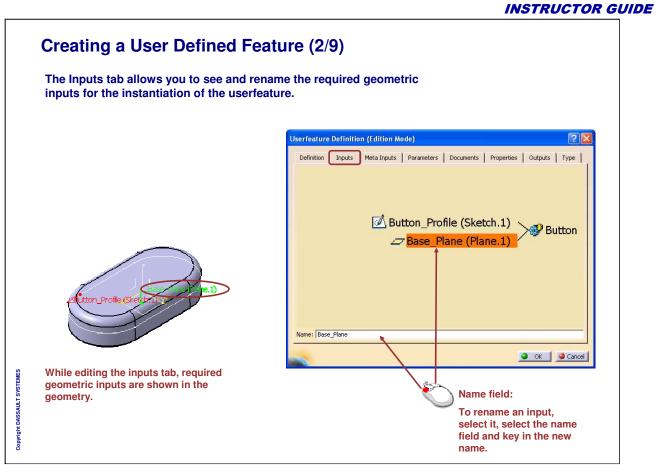






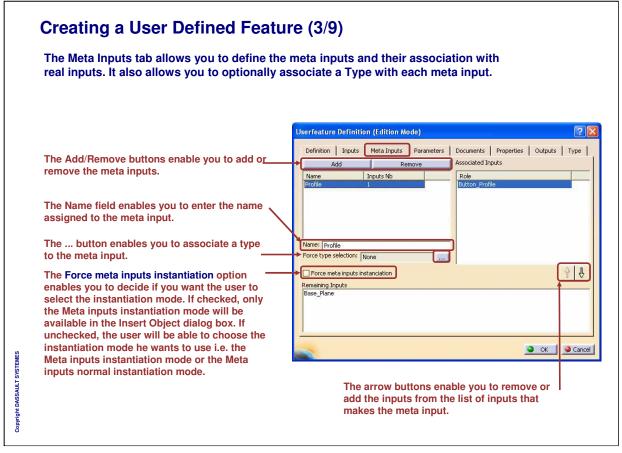


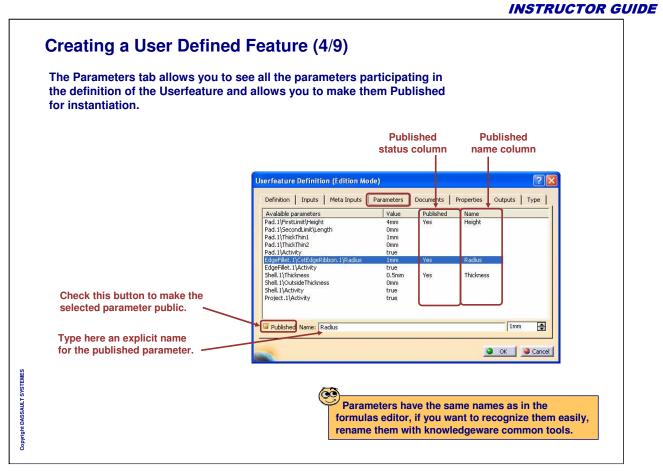


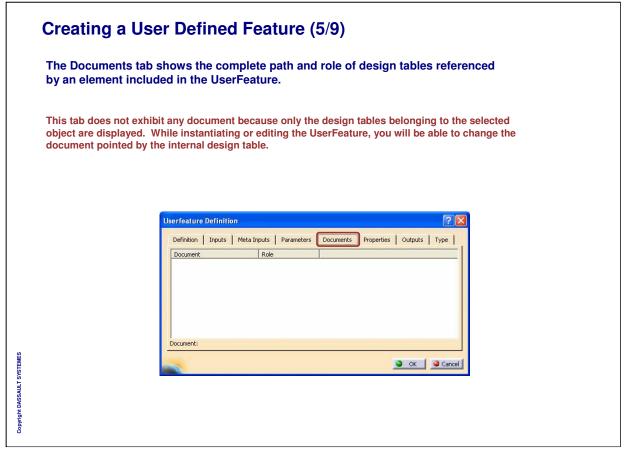


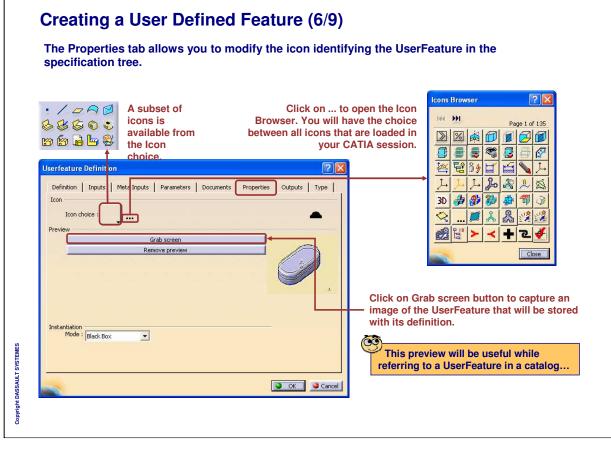
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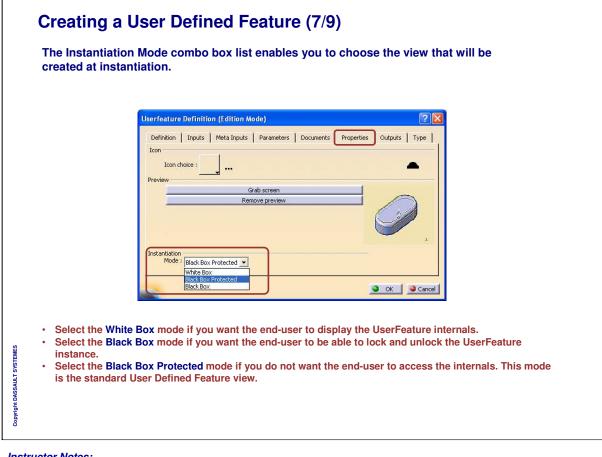




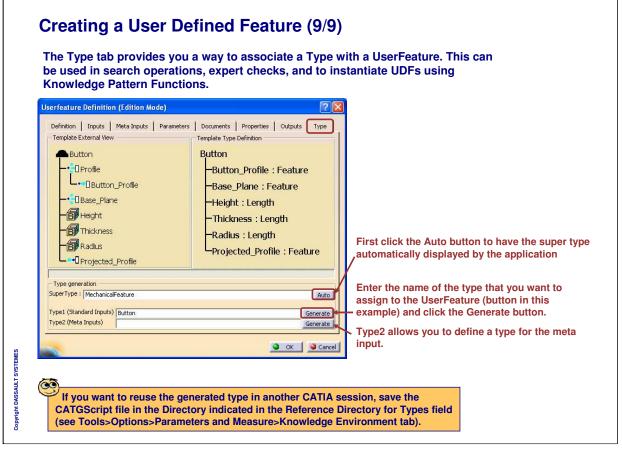


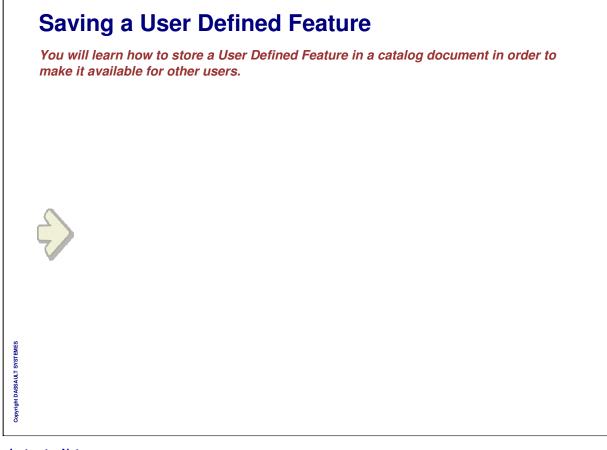




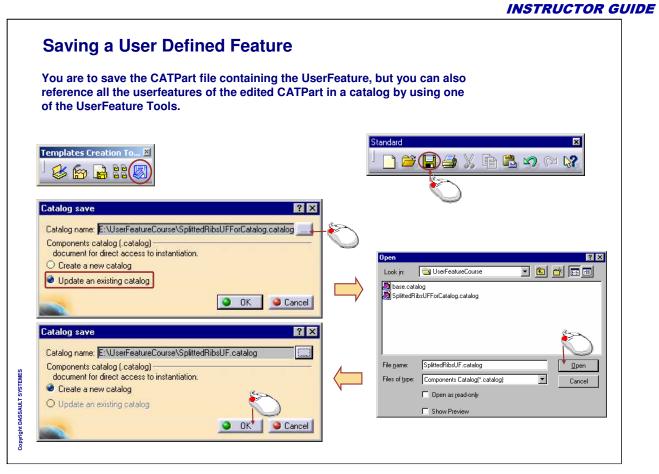


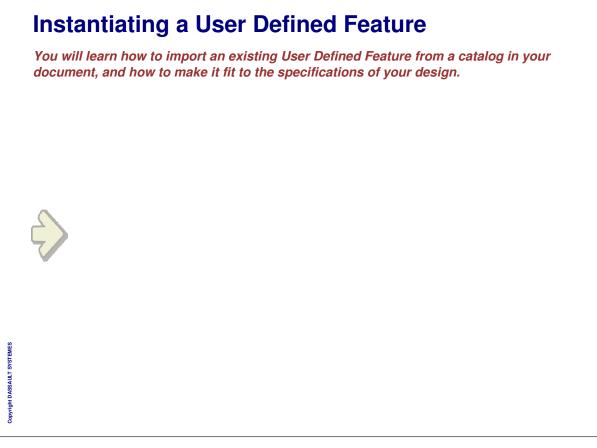
		INSTRUCTOR GUI
Creating a Us	er Defined Feat	ture (8/9)
The Outputs tab all result for instantiat		metric outputs other than the Main
CATPKT_LOF y plane y plane z plane Axis Systems PartBody Pad.1 Project.1 Geometrical Set.1 Plane.1 Project.1 Project.1	Click on Add button and select in the tree the UserFeature you want to r instantiation	he element of the Key in a new output name after



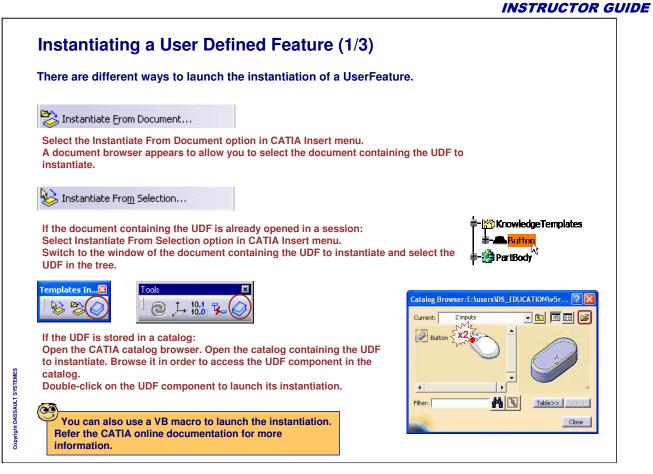


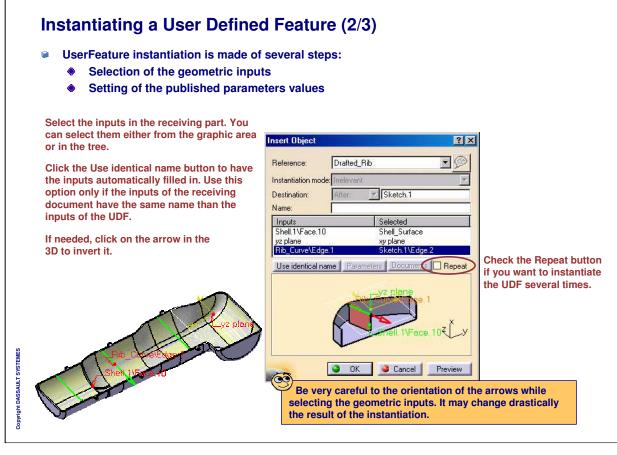


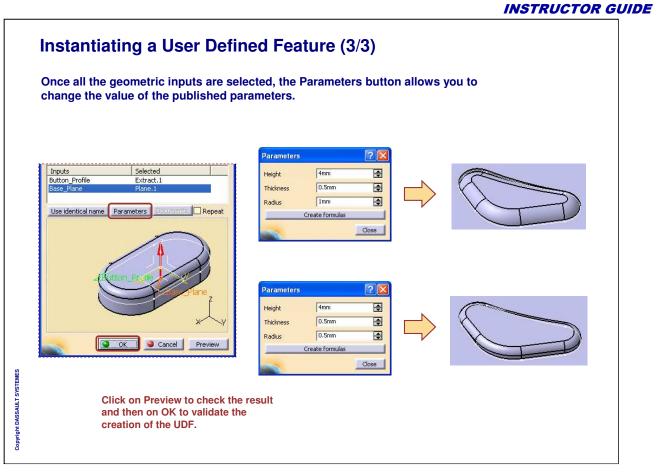


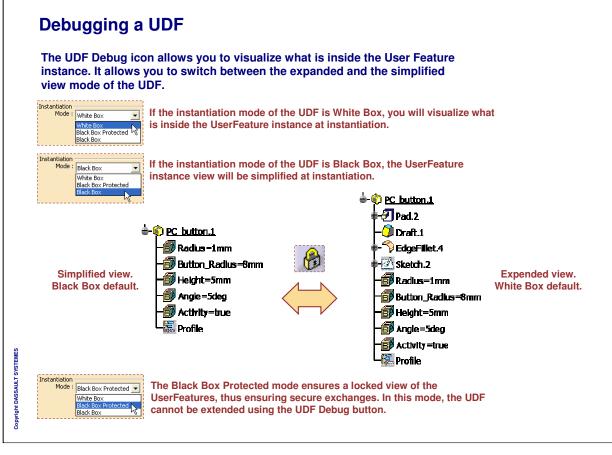


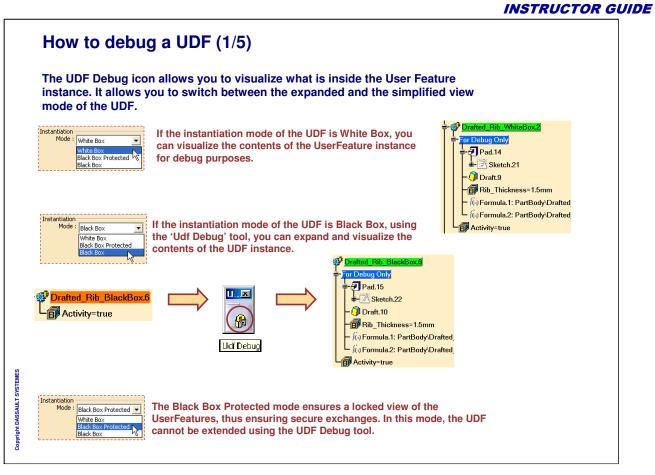


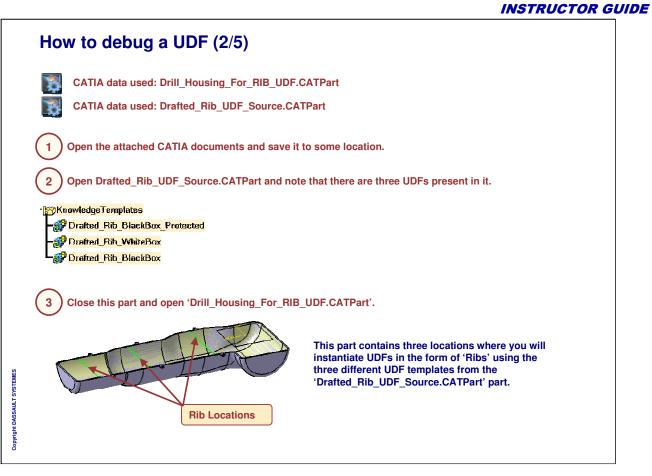




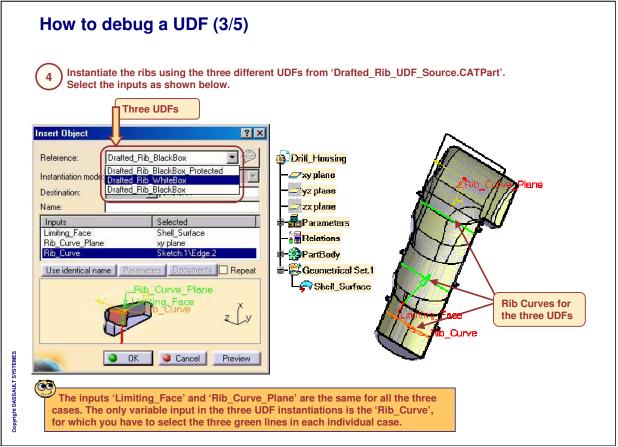


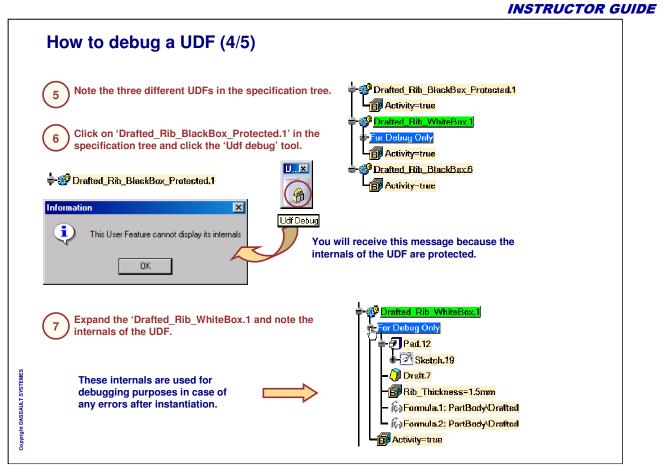




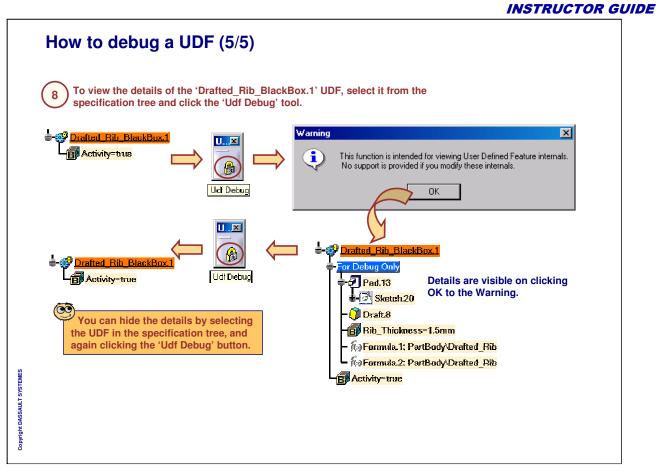


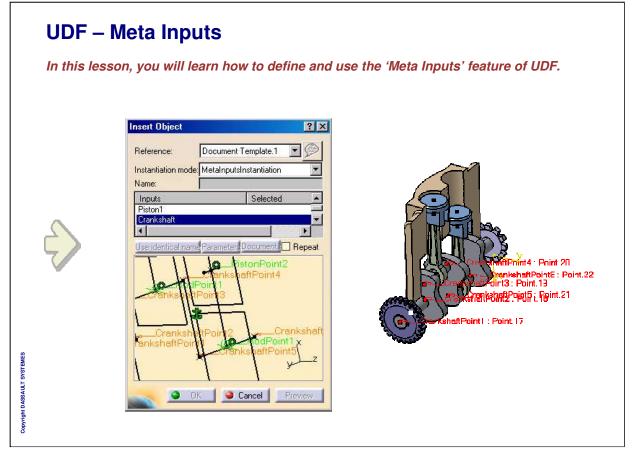




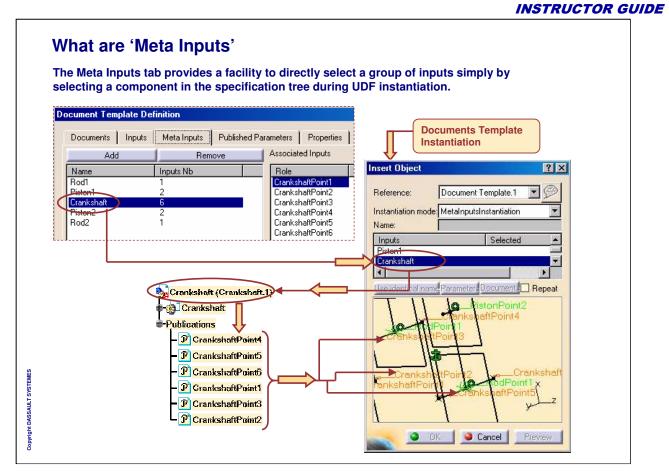


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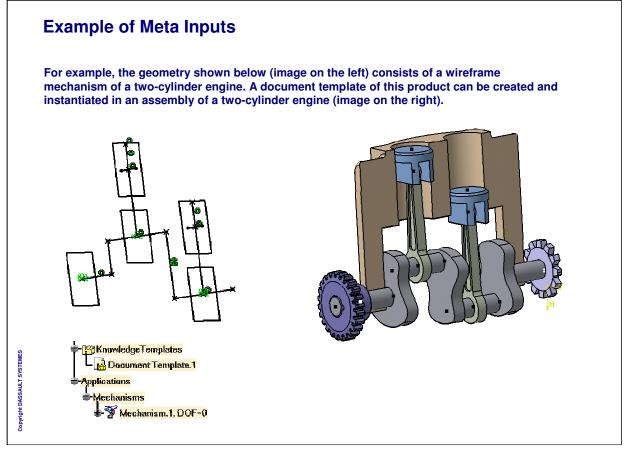






	INSTRUCTOR
How to define 'Meta Inputs' for UDF	
Defining the 'Meta Inputs' involves creating a 'Group of Inputs' and a number of individual inputs to this group.	associating a
Document Template Definition	<u>?×</u>
Documents Inputs Meta Inputs Click the Meta Inputs Tab	
1 Add Remove Associated Inputs	
Ne Click the 'Add' button Role	
Robin CrankshaftPoint1 Piston1 2 CrankshaftPoint2	
Crankshaft 3 CrankshaftPoint3	
Piston2 2 Bod2 1	
Name: Crankshaft	
Force type selectio 2 Type a new name for the Meta Input	
Force meta inputs instanciation	6
Remaining Inputs	
CrankshaftPoint4 CrankshaftPoint5	
CrankshaftPoint63	
Select the available inputs and associate them to a group.	
	Cancel

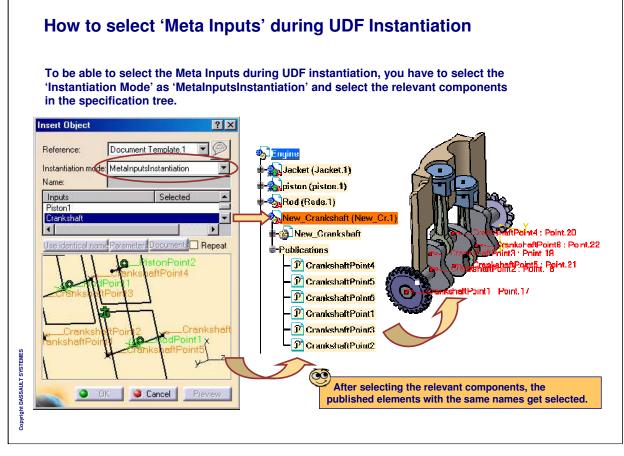






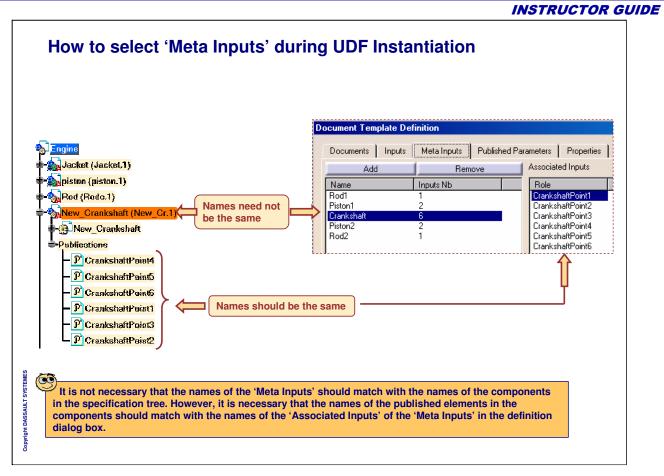








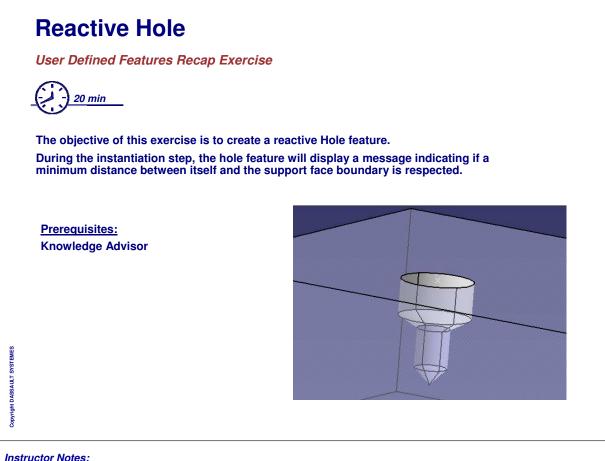


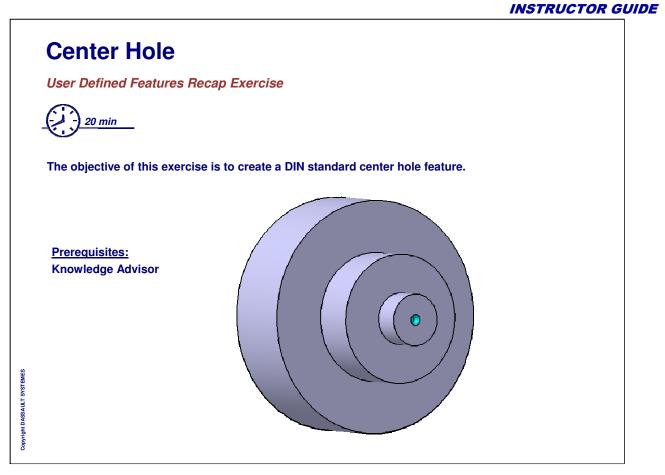


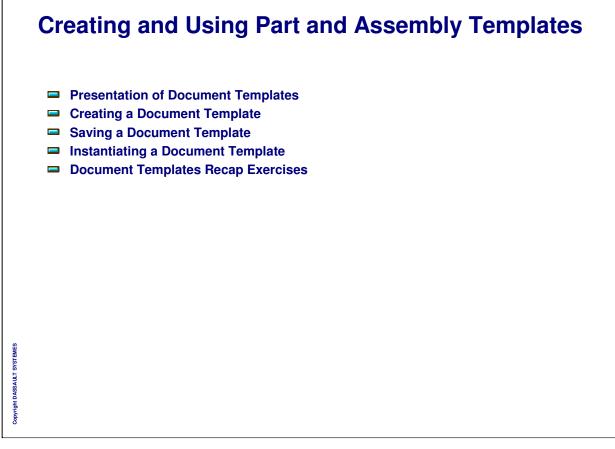


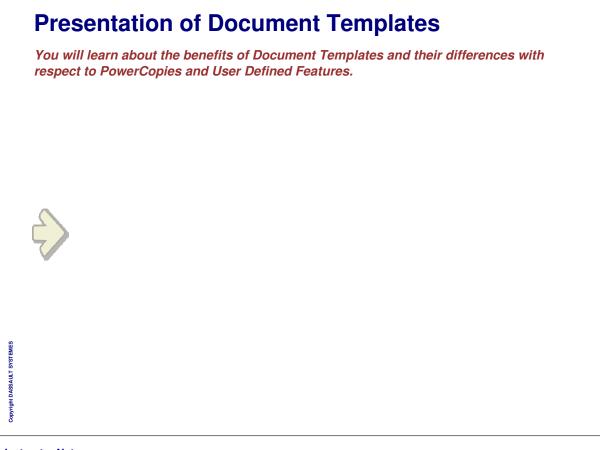






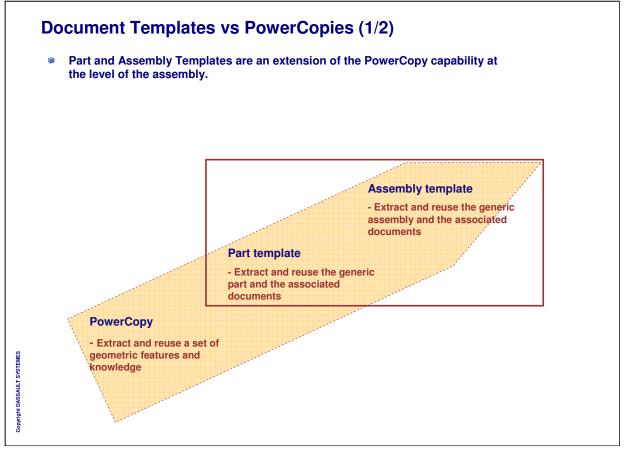


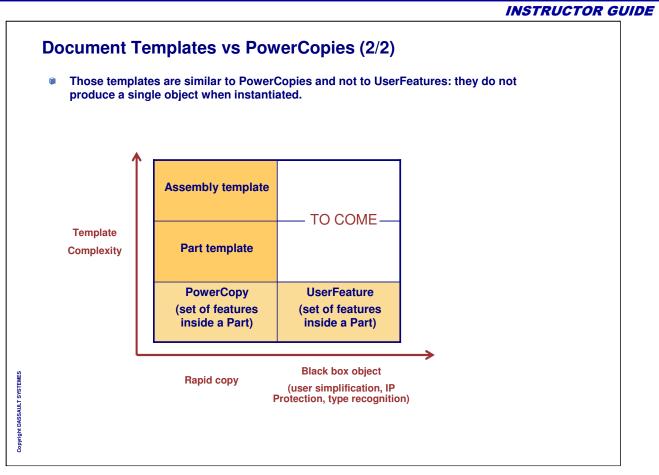




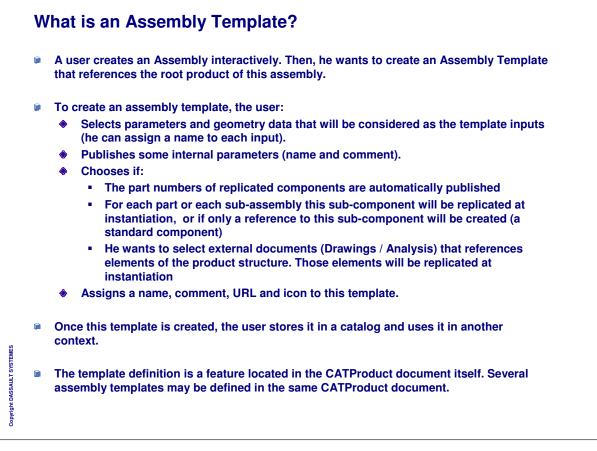


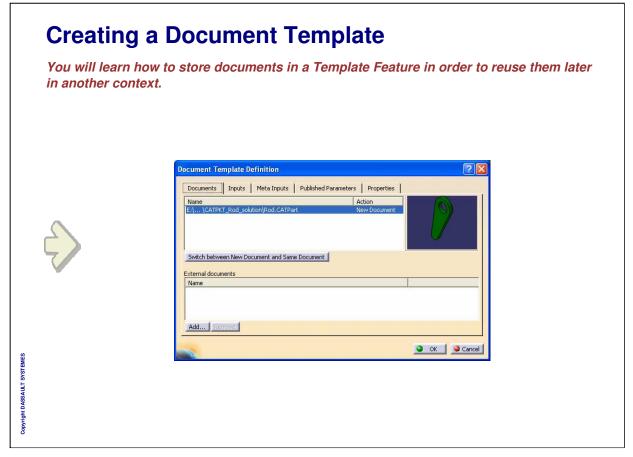




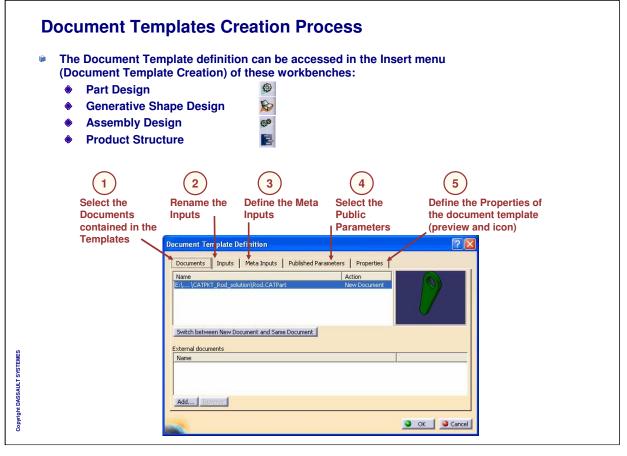


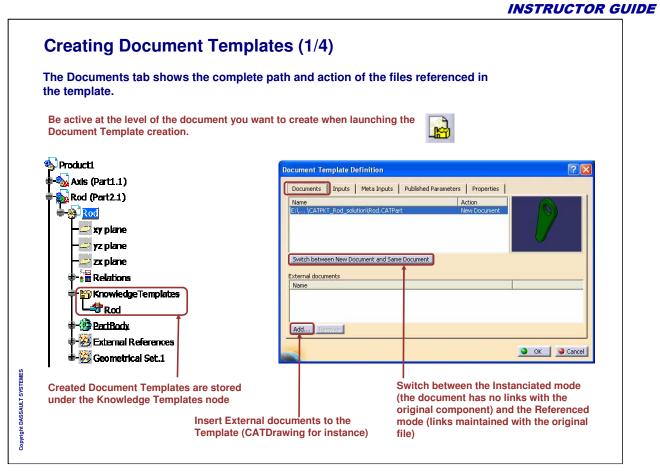
	Wr	A Part created in CATIA may contain user parameters and geometry data. It is not a contextual part. The user can create a part template that references that part. This template is a feature that is created in the CATPart document itself (very similar to the PowerCopy definition) and stored in a catalog. Several part templates may be defined in the same CATPart document.
	۲	To create a Part Template, the user:
		 Selects parameters and geometry data that will be considered as the template inputs (he can assign a role and a comment to each input).
		 Publishes some internal parameters (name and comment). The part number is automatically published.
		• Gives a name, comment, URL, and icon to this template.
	۲	Once the template is created, the user stores it in a catalog and uses it in another context. In product structure context, the part is inserted as a component of the current product.
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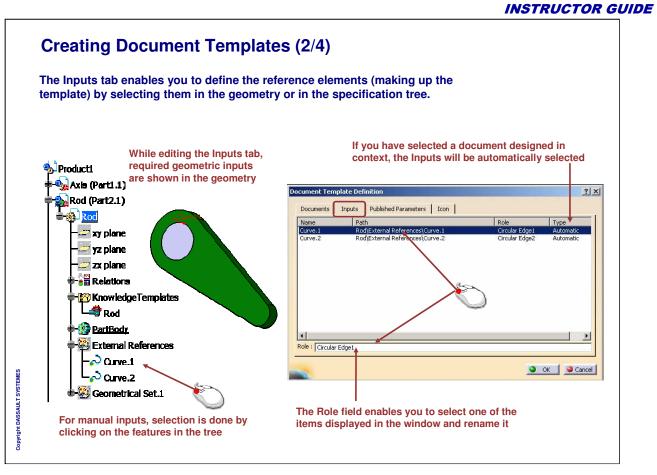


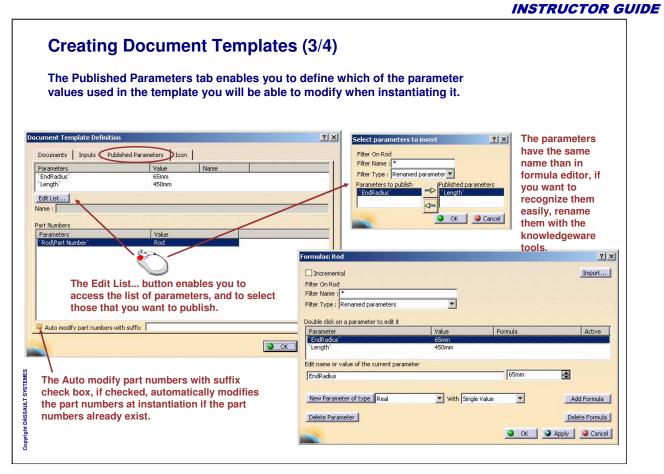


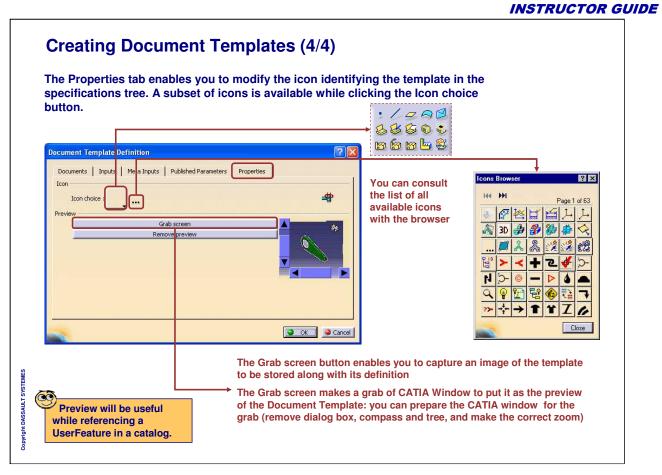


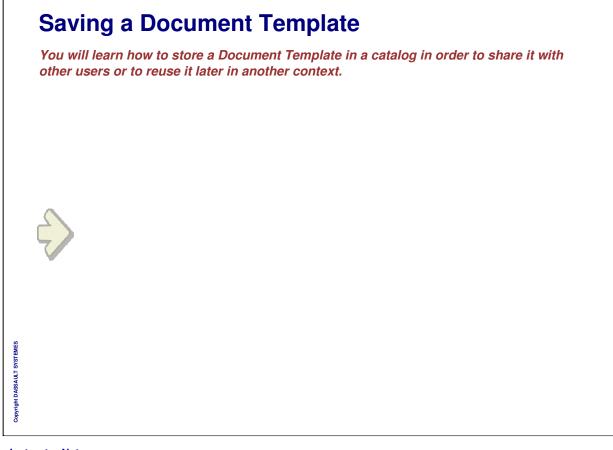




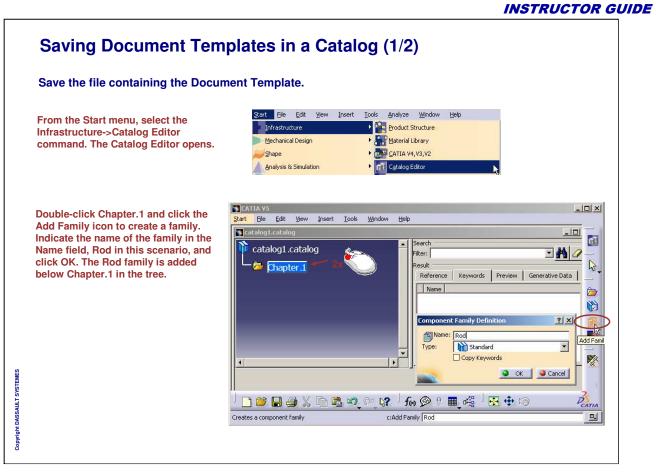


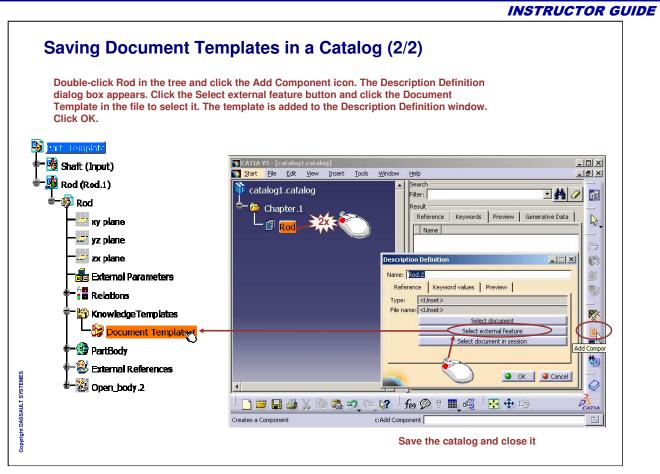


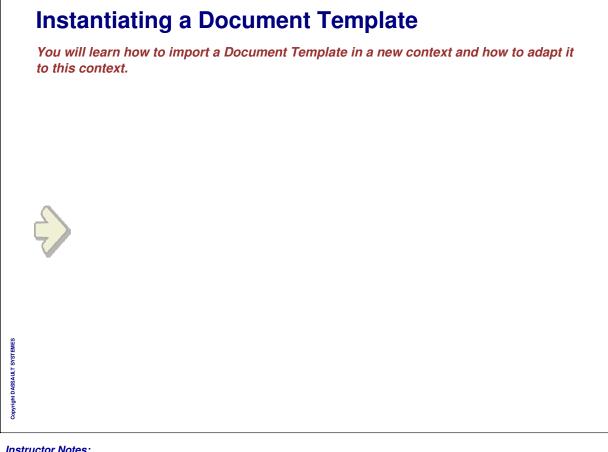




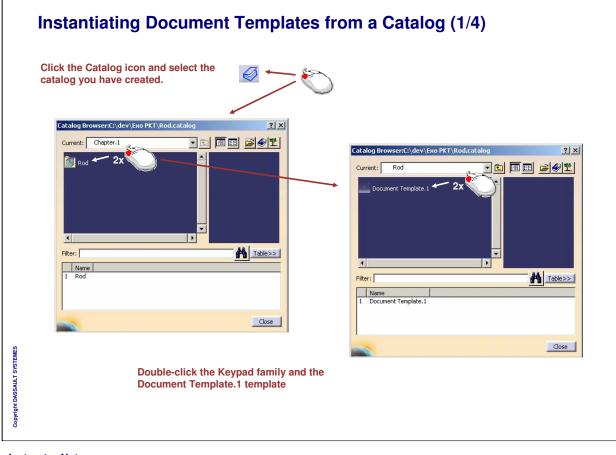


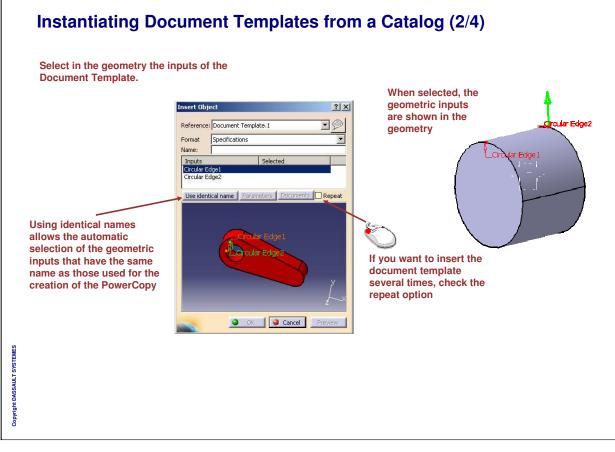




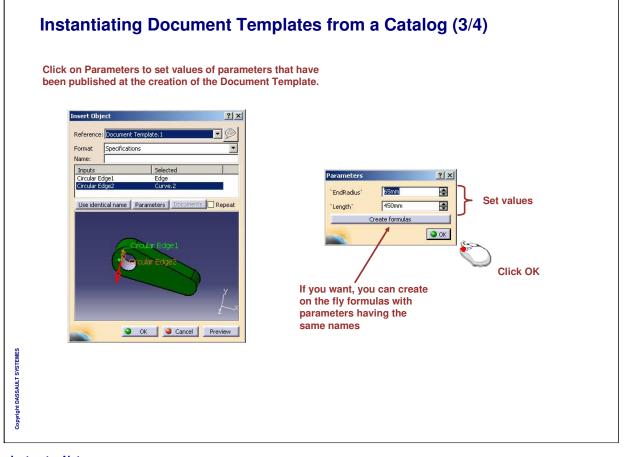


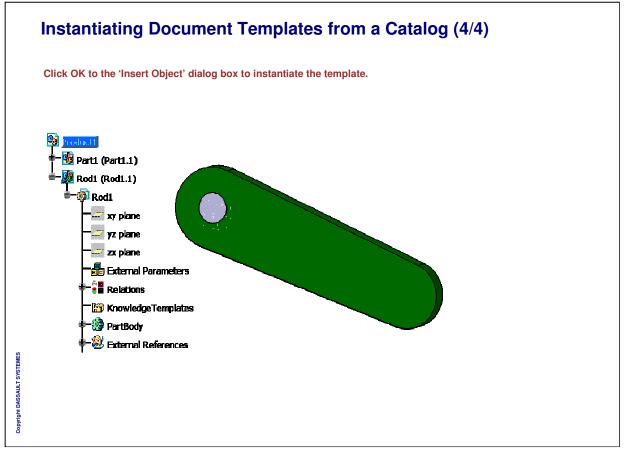






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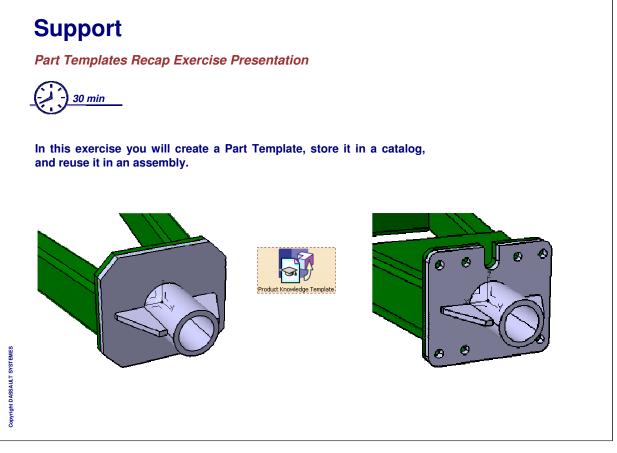


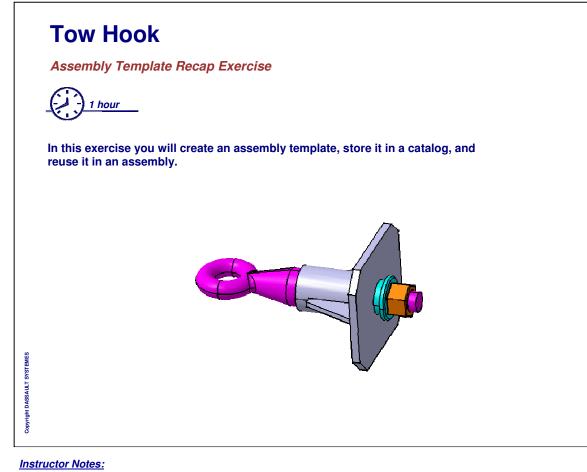


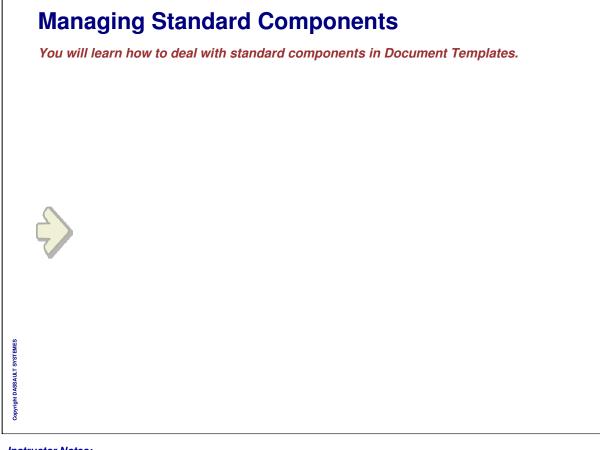
Do	ocument Templates Recap Exercises
Υοι	<i>will practice Document Templates through three exercises:</i>
	Rod Part Template Recap Exercise
	Support Part Template Recap Exercise
	Tow Hook Assembly Template Recap Exercise





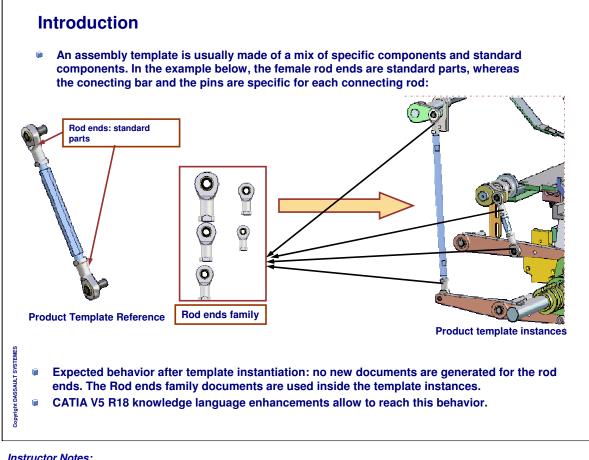






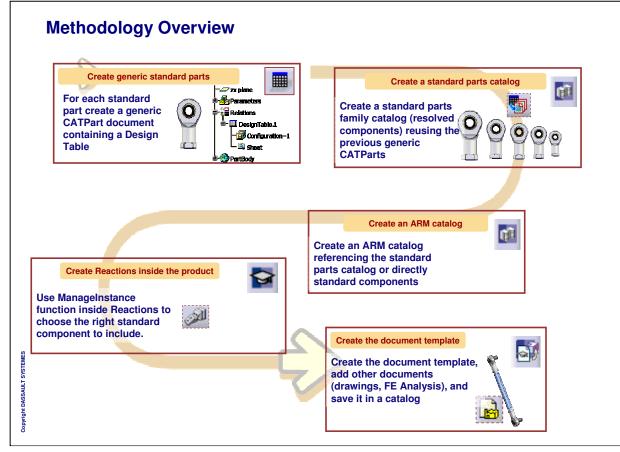










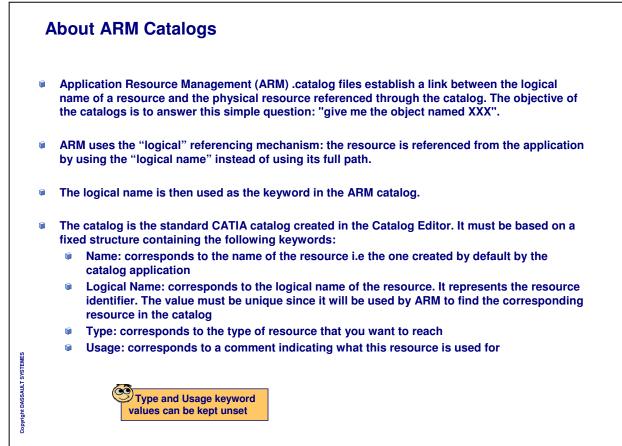




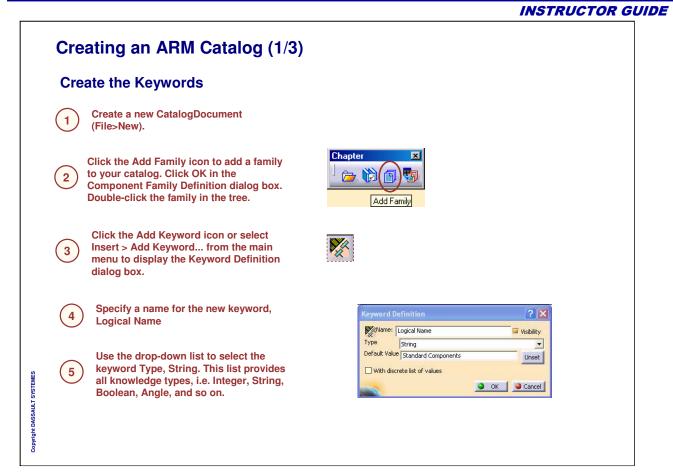
	hitect Resources Creation Path", among them: "knowledgeResour reen)	-	
Options Options General Compatibility Compatibi	Knowledge Scale Unit Knowledge Environment Language India extended language libraries Image: India extended language libraries Image: Im	Port Generation Param(E: Lusers Lsi (1.V.5) Knowledge Resources File Edit View Pavorites Tools Help Back O D Search Profess Address E: Lusers Lsit (VS) Knowledge (Resources Inowledge Resources) Inowledge Resources Inowledge Types Custom Nowledge Types DS workbench



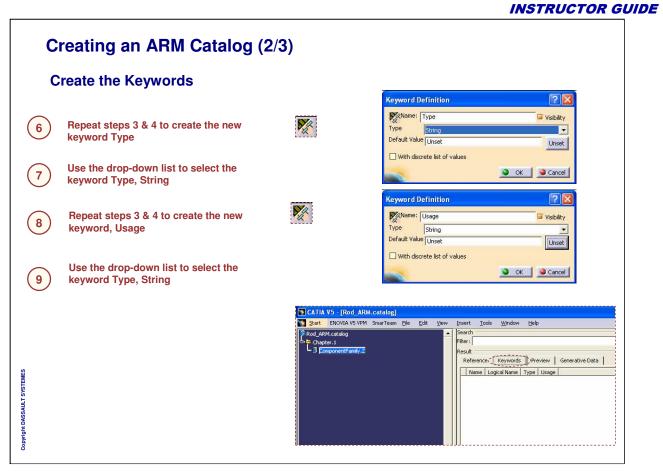
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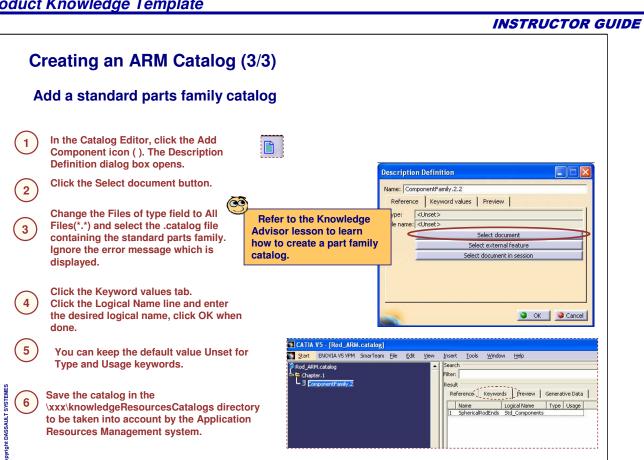




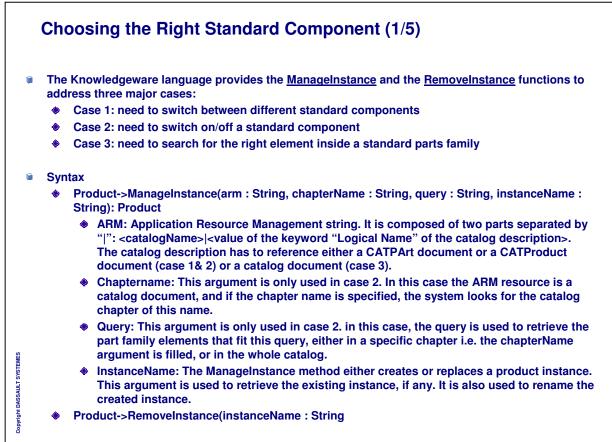




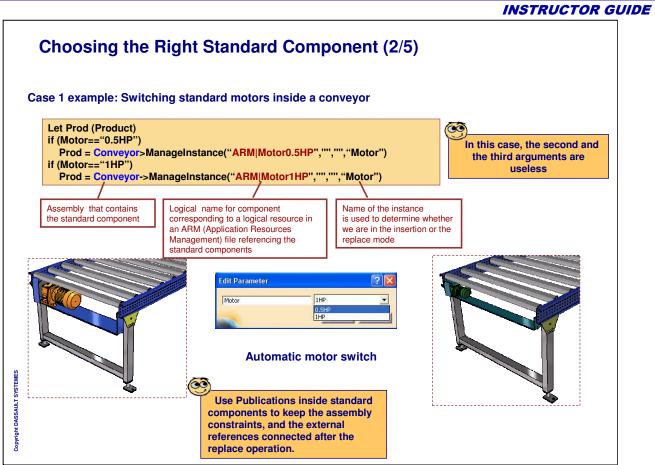






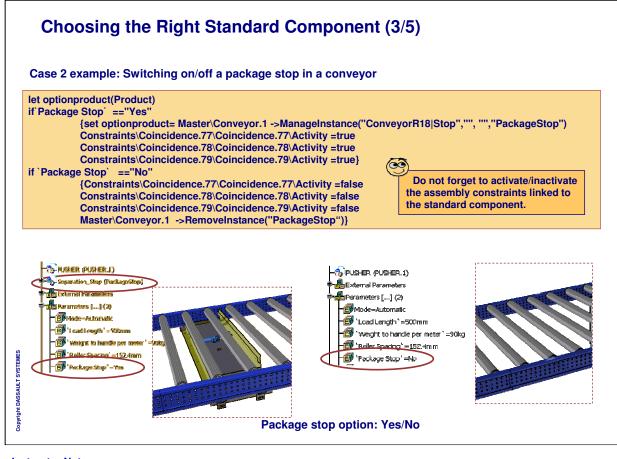




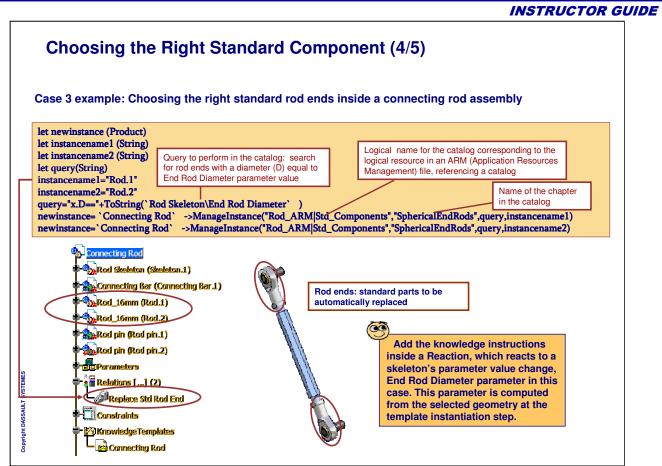






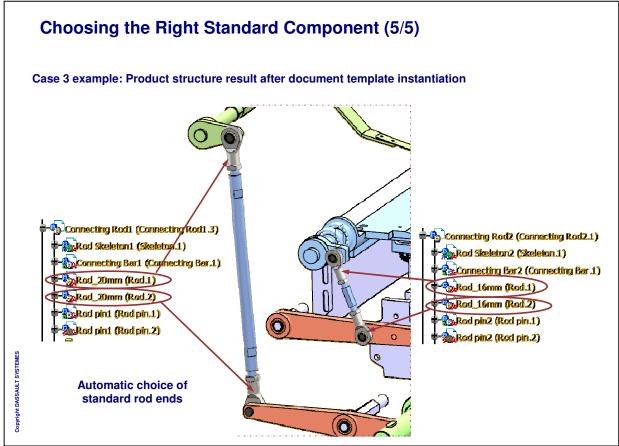




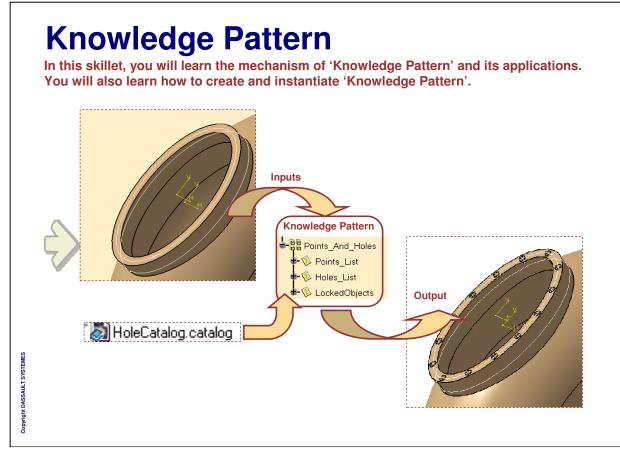




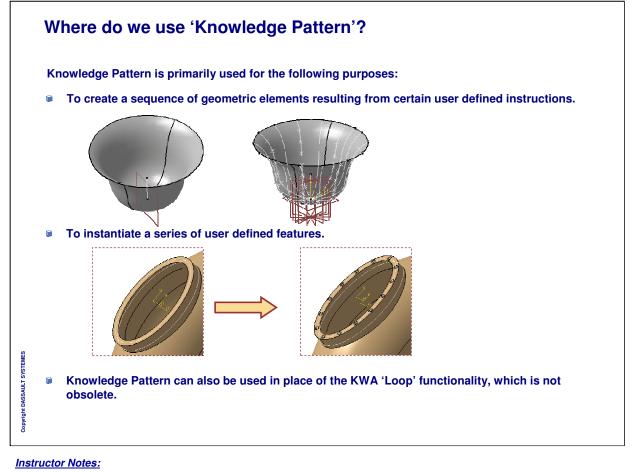




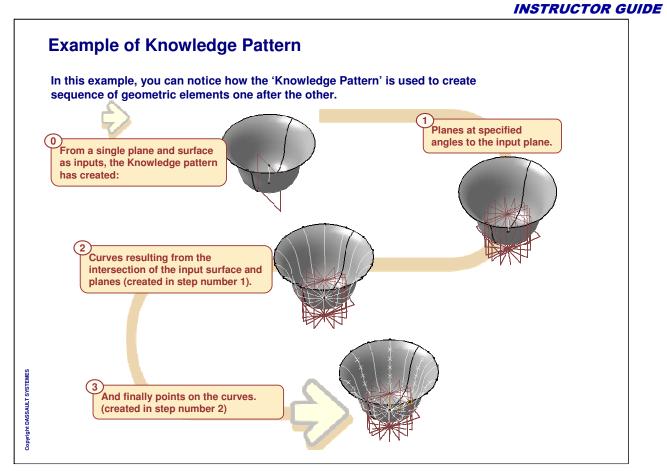




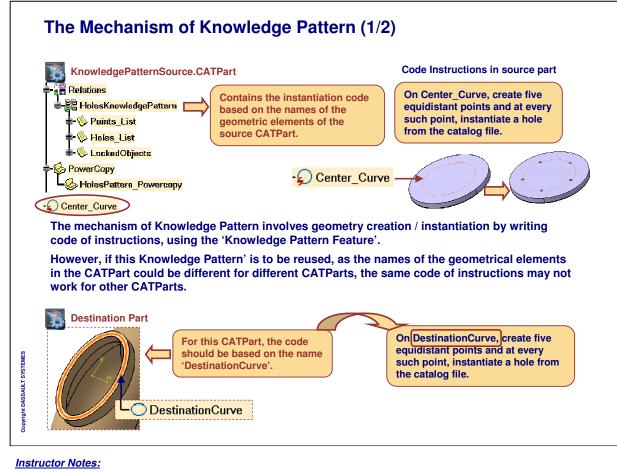




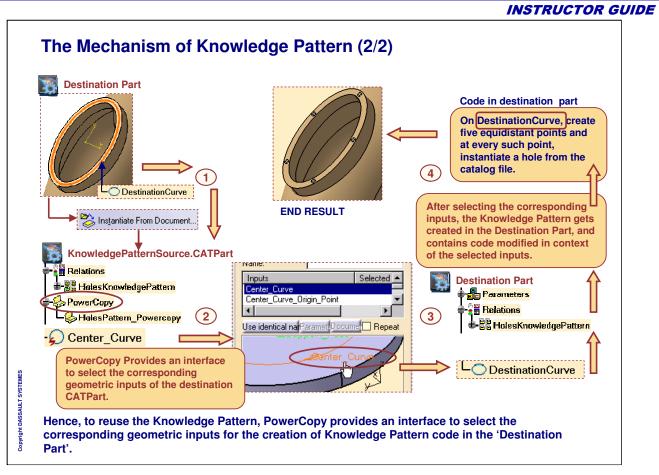






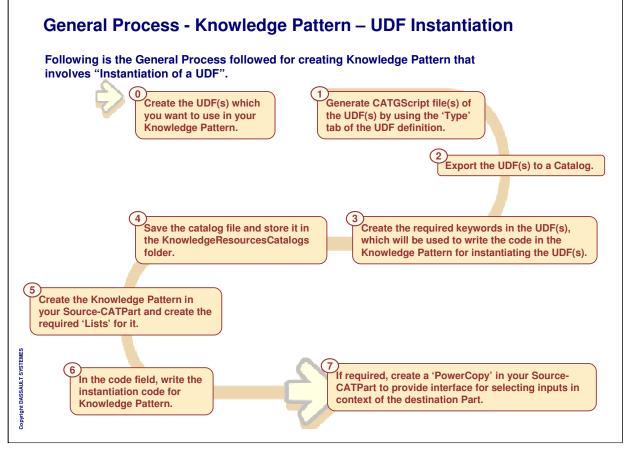








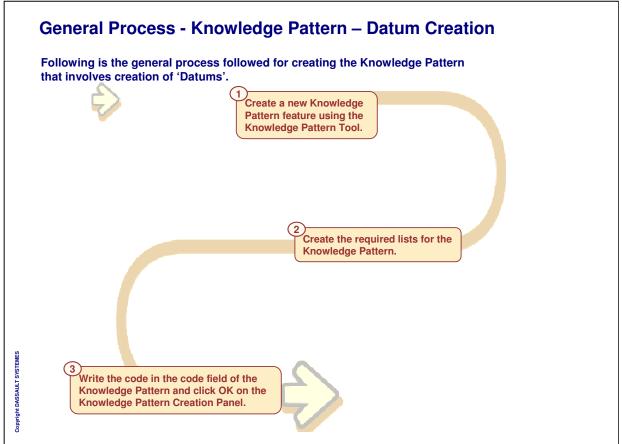












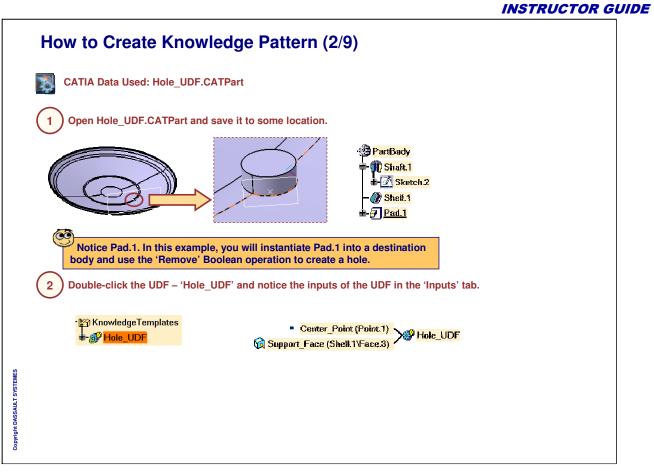




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INSTRUCTOR GUIDE

Н	low to Create Knowledge Pattern (1/9)
	efore creating a Knowledge Pattern, you can set the folder for "Architect Resources Creation ath' folder.
T	nis setting can be accessed in Tools > Options > General > Parameters and Measures > nowledge Environment tab.
ĸ	Architect Resources Creation Path C:\Knowledge_Env
	After doing this setting, the files which are created by Knowledge Pattern functionalities fall in his folder.
	Otherwise, the files are created in the installation folder of CATIA V5. \intel_a\resources\Knowledge)
	Note that you will have to restart CATIA for this setting to take effect.

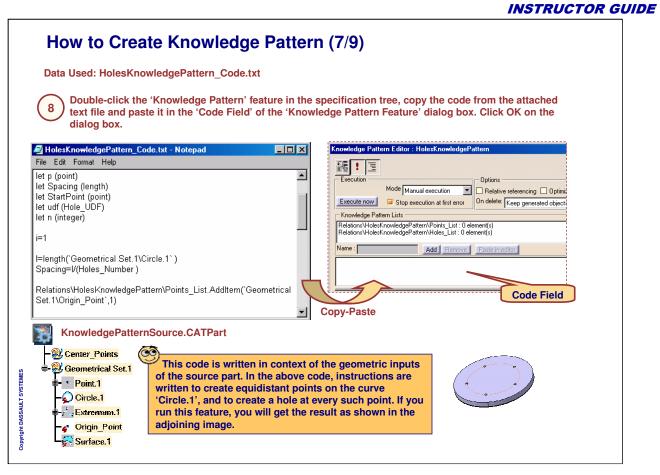


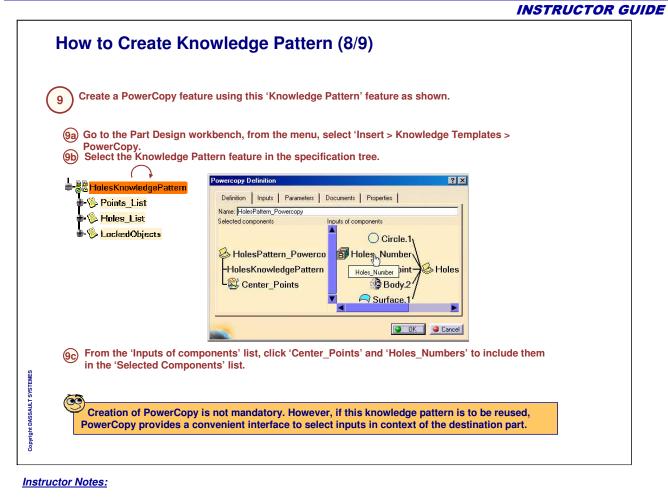
How to Create Knowledge Pattern (3/9)
Userfeature Definition Image: Comparison of the UDF using the formulate External View Image: Comparison of the UDF comparison of the UDF comparison of the UDF comparison of the UDF comparison of the transmission of the transmi
Information The .CATG5cript file has been generated in directory C:\Knowledge_Env\knowledgeTypesCustom OK
A CATGScript file will be created in the folder which is specified in the Knowledge Environment > Architect Resource Creation Path.
nstructor Notes:

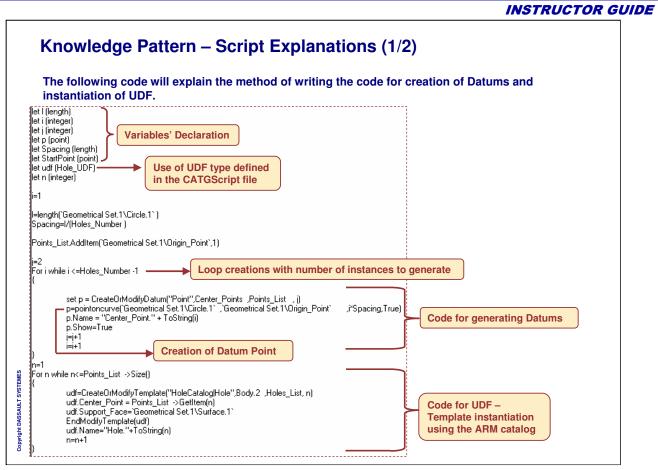
		INSTRUCTOR GUIDE
How to Create Kr	nowledge Pattern (4/9)	
4 Export the Hole_UDF to	a catalog file and create the required keywor	ds in the catalog file.
(4a) Create a new Catalog Doc	ument and add a new family to the default Cl	hapter.1.
)) CatalogDocument 1. catalog Chapter: 1	Chapter Image: Chapter matrix Image: Chapter matrix	CatalogDocument1.catalog
(4b) Activate the component f	amily and add the Hole_UDF feature as a co	nponent in this catalog file.
CatalogDocument1.catalog Chapter.1 ComponentFamily.2 Data Add Component	Description Definition Name: ComponentFamily.2.1 Reference Keyword values Type: KUnset> File name: KUnset> Select document Select document in session OK	Hole_UDF Diameter=Smm
Click 'Add Component'	Click 'Select external feature'	Select the UDF Hole_UDF from Hole_UDF.CATPart and click OK

	INSTRUCTOR GUIDE
How to Create Knowledge Pattern (5/9)	
now to oreate knowledge r attern (0,0)	
 Click the 'Add Keyword' tool, specify the name, type, and default value as shown, and click OK. 	
Data Keyword Definition ?X	
Type String	
Add Keyword Default Value Hole Unset	
With discrete list of values	
OK OCancel	
The keyword name and its value is used as an identifier to write the	
instantiation code in the Knowledge Pattern Feature.	
5 Save this Catalog Document by the name 'HoleCatalog.Catalog' and copy it to the 'KnowledgeResourcesCatalog' folder of the "Architect Resource Creation Path"–	
Knowledgenesourcescalalog folder of the Architect Resource Creation Path -	Folder.
Address 🛅 C:\Knowledge_Env\knowledgeResourcesCatalogs	
Name A	
MoleCatalog.catalog	
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	INSTRUCTOR GUIL
	How to Create Knowledge Pattern (6/9)
	CATIA Data Used: KnowledgePatternSource.CATPart
	6 Open the KnowledgePatternSource.CATPart, and create a 'Knowledge Pattern Feature' by clicking the 'Knowledge Pattern Tool' of the Product Knowledge Template workbench.
	Knowledge Pattern Editor : Knowledge Pattern.1
	Image: Stop execution Options Image: Stop execution at first error Options Image: Relative referencing Optimize memory (no undo) Image: Relations Stop execution at first error Image: Holes_List Optimize memory Image: Holes_List Optimize memory Image: Holes_List Add Remove Image: Holes_List Manual Execution' mode.
	6 Add the lists named 'Points List' and 'Holes List' for the Knowledge Pattern by clicking the 'Add' button.
Copyright DASSAULT SYSTEMES	To add the lists, click the 'Add' button, type the name of the list, and again click the 'Add' button. After creating the required lists, click OK on the 'Knowledge Pattern Editor' dialog box, and rename the 'Knowledge Pattern Feature' to "HolesKnowledgePattern".





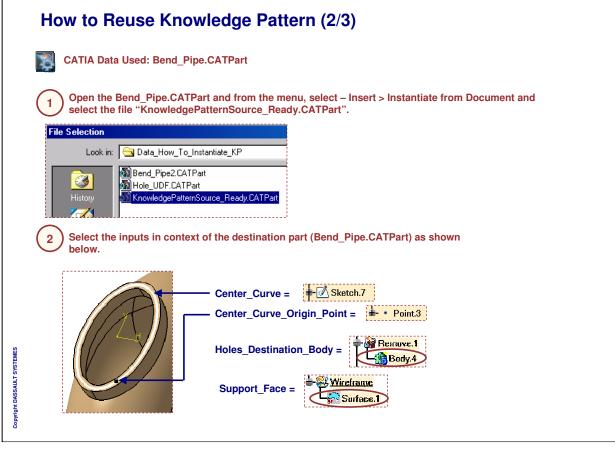


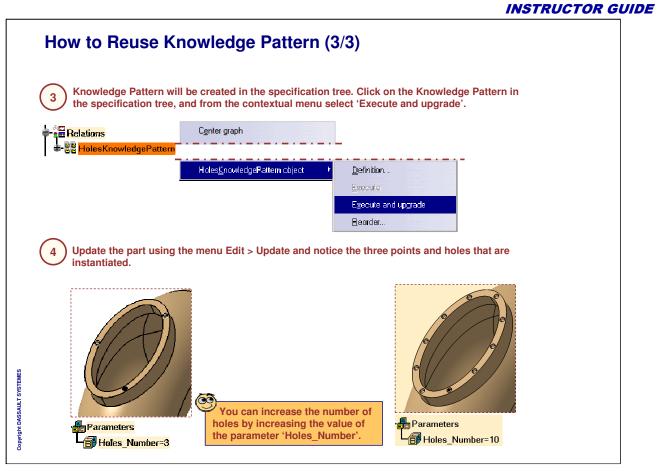
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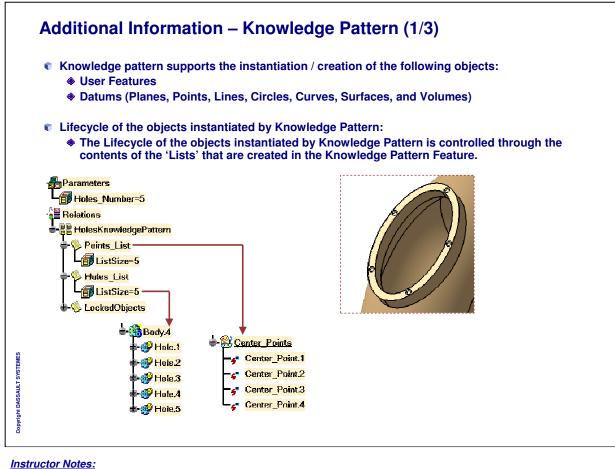
	INSTRUCTOR GUIDE		
Kn	owledge Pattern – Script Explanations (2/2)		
	following code explains the syntax of UDF instantiation and cification of the inputs for the UDF.		
}	hile n<=Points_List ->Size[] udf=CreateOrModifyTemplate("HoleCatalog Hole",Body.2,Holes_List,n) udf.Center_Point = Points_List ->GetItem(n) udf.Support_Face=`Geometrical Set.1\Surface.1` EndModifyTemplate(udf) udf.Name="Hole."+ToString(n) n=n+1 Specification of the inputs for the UDF		
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Ho	ow to Reuse Knowledge Pattern (1/3)
þ	CATIA Data Used: Hole_UDF.CATPart, HoleCatalog.Catalog, KnowledgePatternSource_Ready.CATPart
	Other Files Used: Hole_UDF.CATGScript
	Prerequisites for reusing Knowledge Pattern involving UDF instantiation.
Cop	reusing a Knowledge Pattern, you should have created the knowledge pattern, its Power by, UDF part and respective catalogs. However, these inputs have been kept ready for you. owing are the prerequisites to reuse the Knowledge Pattern for the example used in this case.
1) Copy the Hole_UDF.CATPart file to your "c:\temp" directory.
2) Copy the HoleCatalog.Catalog file to the "\knowledgeResourcesCatalogs" folder of the Knowledge Environment – 'Architect Resources Creation Path' (which is specified in the User Settings)
3) Open the HoleCatalog.Catalog file and verify that it points to the Hole_UDF feature of Hole_UDF.CATPart that you have stored at "c:\temp"
4) Copy the Hole_UDF.CATGScript file to the "\knowledgeTypesCustom" folder of Knowledge Environment – 'Architect Resources Creation Path' (which is specified in the User Settings)
) In this example, you will be instantiating the knowledge pattern from the source CATPart –

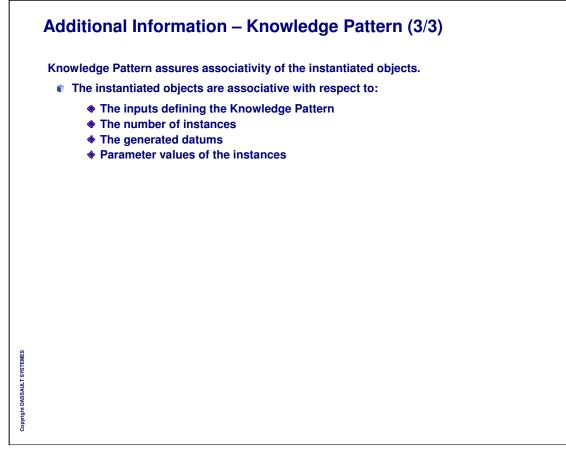








Additional Information – Knowledge Pattern (2/3)
Execution Mode for Knowledge Pattern:
Knowledge Pattern Editor : HolesKnowledgePattern Image: State of the s
In the 'Manual execution' mode, you have to execute the Knowledge Pattern every time you make changes in the code or any parameters related to the Knowledge Pattern.
In the 'Automatic execution' mode, the Knowledge Pattern automatically gets executed when you click OK on the 'Knowledge Pattern Editor' dialog box.
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	То	Sum Up
	In ti	nis lesson, you have learned:
		The concept of 'Knowledge Pattern' Its applications Methods to create and reuse 'Knowledge Pattern' Guidelines to write the code of 'Knowledge Pattern'
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То	o Sum Up	
In t	In this course you have seen:	
1	How to use PowerCopies How to use User Define Features	
()	How to use Part and Assembly Templates How to manage standard components	
i	How to use advance replication tools like Knowledge Pattern	
9 		
:		