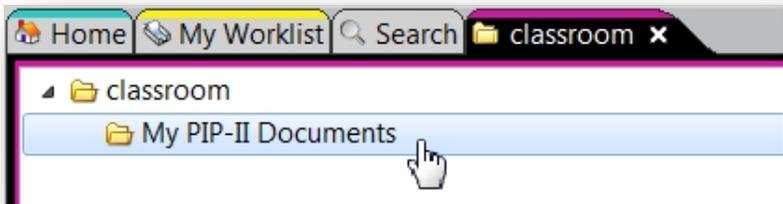


The Siemens logo is positioned in the top left corner. The background features a stylized globe with a grid of white lines, set against a blue and green gradient. The globe is partially obscured by a dark grey rectangular shape.

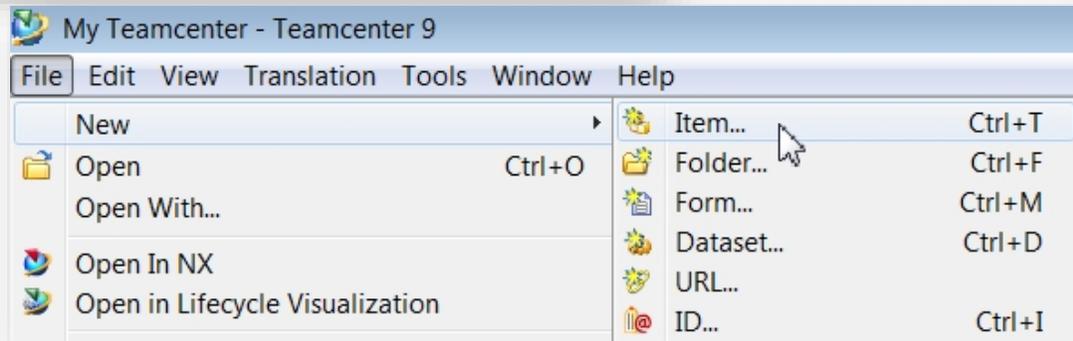
SIEMENS

Creating a Risk Assessment

Teamcenter Fundamental Training



To create a Risk Assessment engineering document, start by selecting an existing folder.



Then, File → New → Item

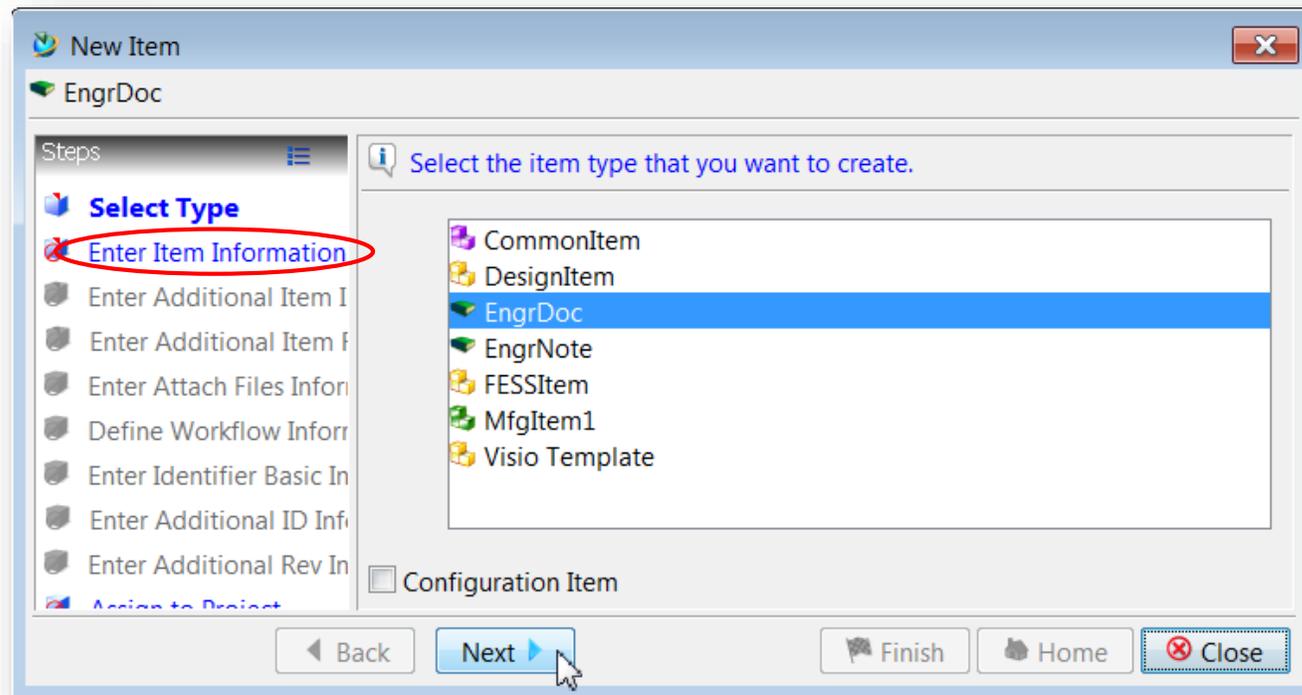
Select *EngrDoc* as the Item Type.
Click *Next*

6 Teamcenter attributes are required:

1. Name
2. Number
3. Revision
4. Description
5. Category
6. Project

Additionally, it is recommended that you include the author name and Fermilab Division/Section.

NOTE: Do NOT put Items inside of Items!



New Item
EngrDoc

Steps

- Select Type
- Enter Item Information**
- Enter Additional Item Information
- Enter Additional Item Revision
- Enter Attach Files Information
- Define Workflow Information
- Enter Identifier Basic Information
- Enter Additional ID Information
- Enter Additional Rev Information
- Assign to Project
- Define Options

Define the basic information for the new item.

Item Information

ID / Revision - Name

Description:

Unit of Measure:

Assign

Back Next

Click on the *Assign* button to assign a new Item Number.

Type in a meaningful name and description.
Click *Next*

New Item
EngrDoc

Steps

- Select Type
- Enter Item Information**
- Enter Additional Item Information
- Enter Additional Item Revision
- Enter Attach Files Information
- Define Workflow Information
- Enter Identifier Basic Information
- Enter Additional ID Information
- Enter Additional Rev Information
- Assign to Project
- Define Options

Define the basic information for the new item.

Item Information

ID / Revision - Name

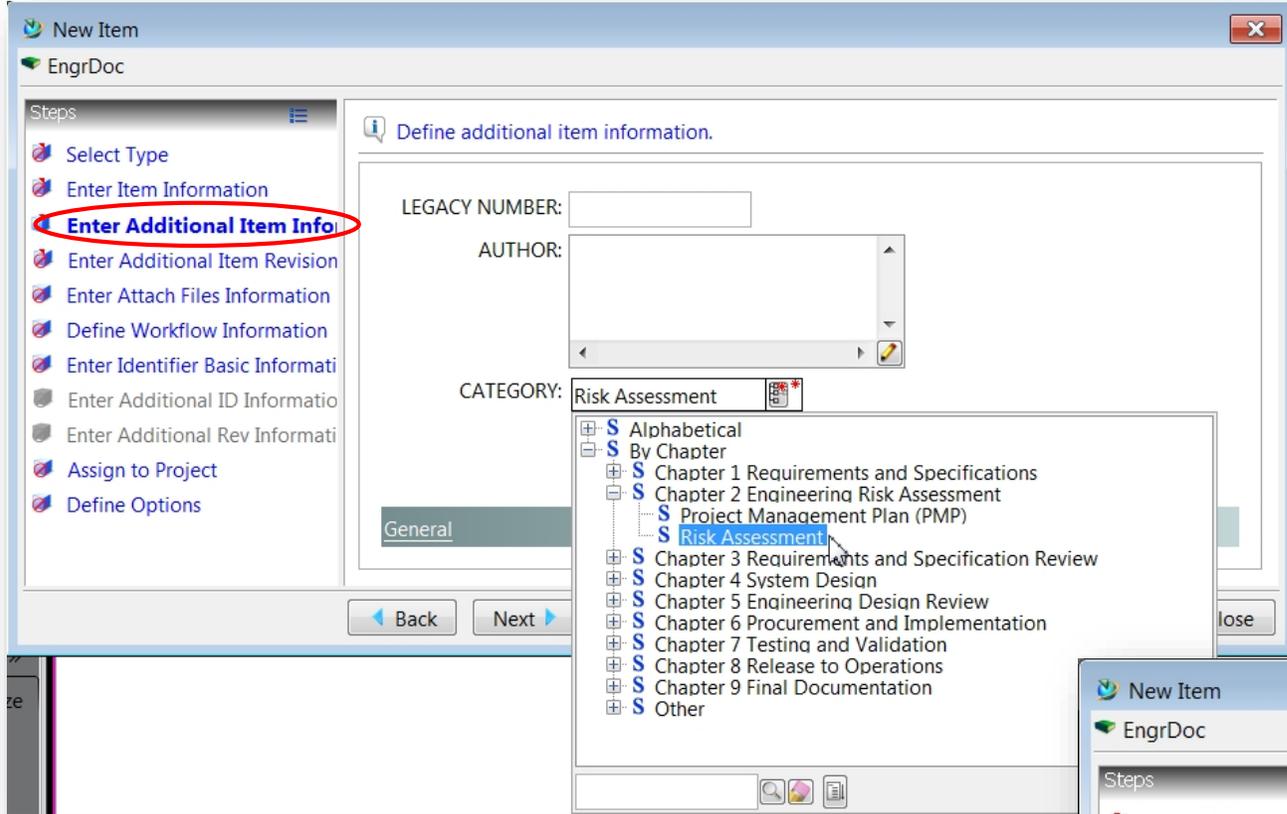
ED0002650 - - SYSTEMS ENGINEERING RISK ASSESSMENT

Description: This is the Risk Assessment for the Systems Engineering and Integration work package.

Unit of Measure:

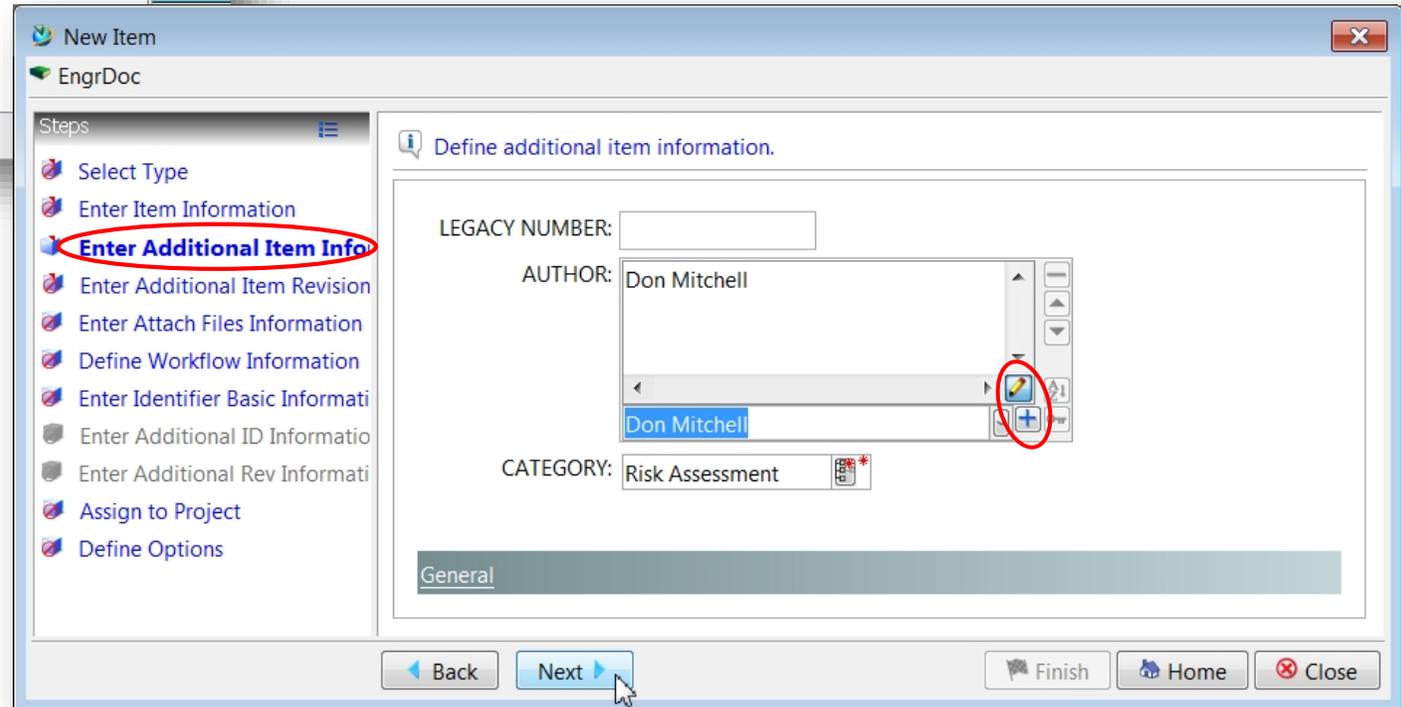
Assign

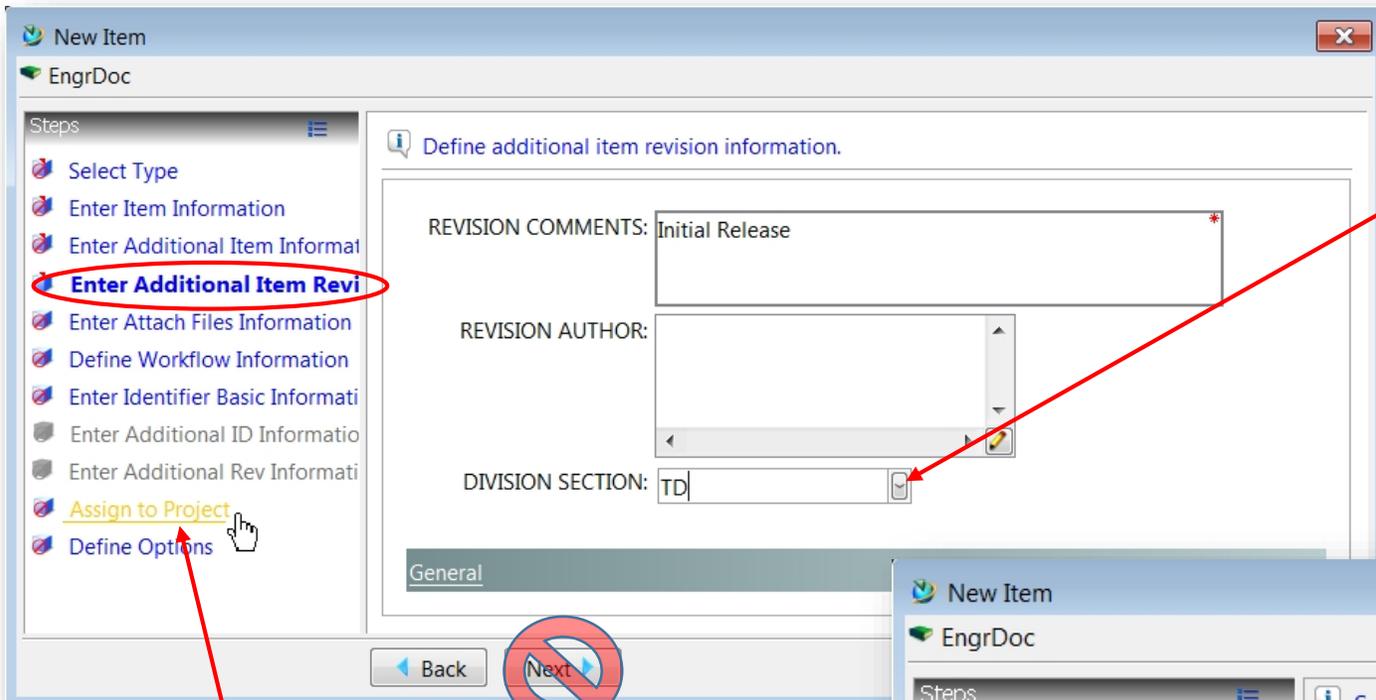
Back Next Finish Home Close



Pull down the *Category* list and double-click on *Risk Assessment*.

Click on the *pencil* icon and enter in your name. Click on the “+” icon to add your name to the author list. Then click *Next*.



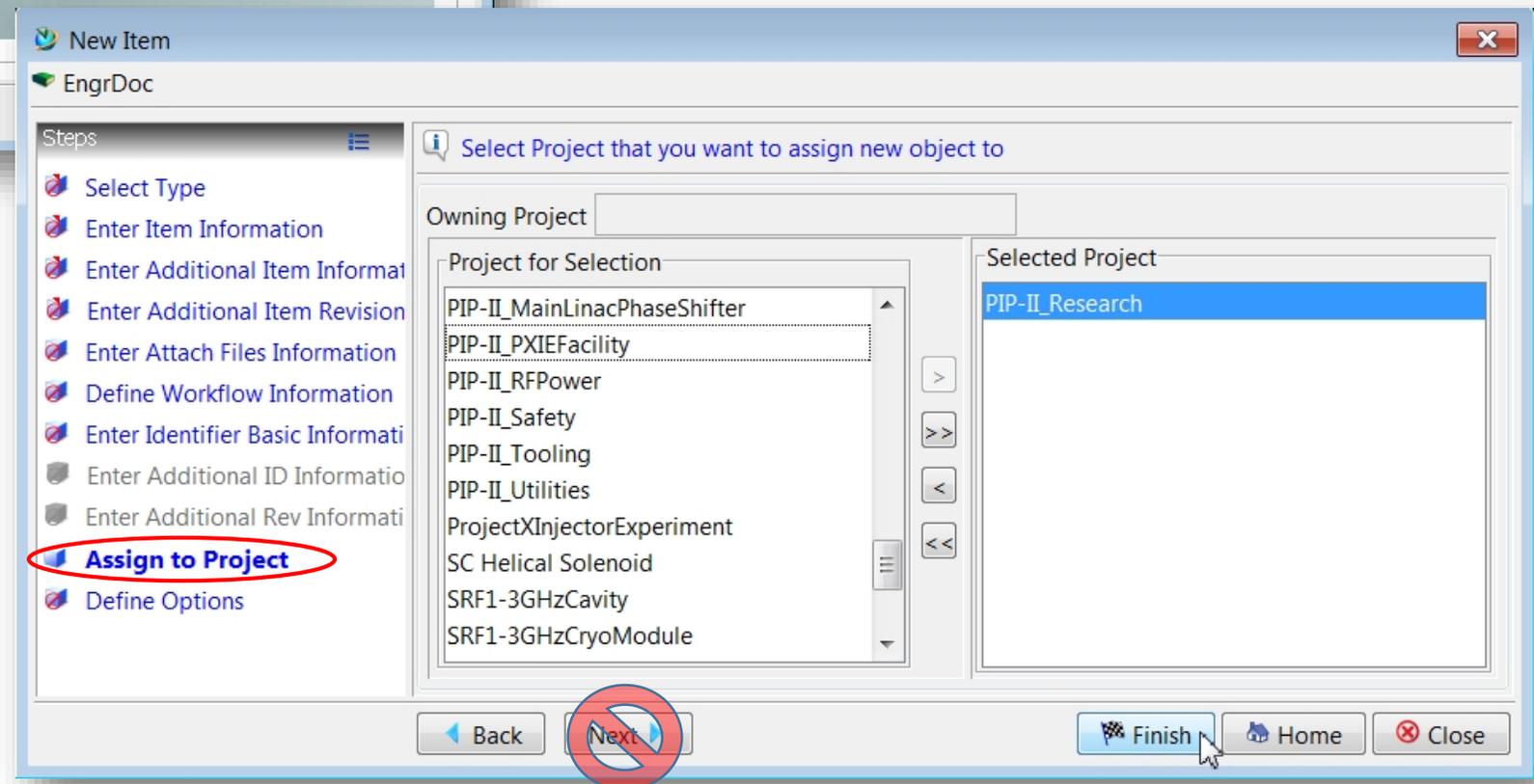


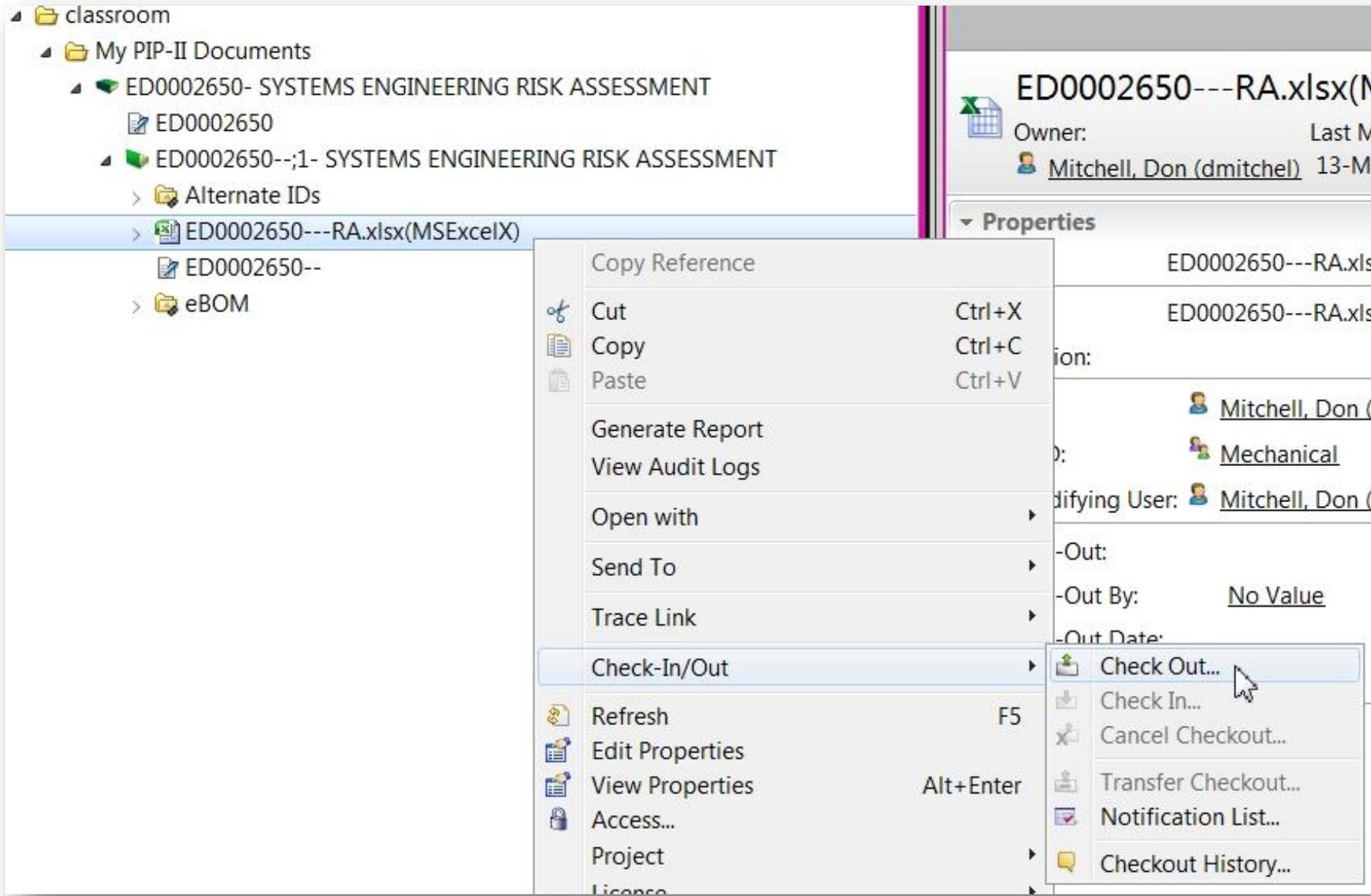
Select your Division/Section from the pull-down list.

You should skip the next several forms and instead go directly to the *Assign to Project* form. Do this by clicking on *Assign to Project*.

Find your Project in the list and add it to the *Selected Project* column.

Click *Finish*.



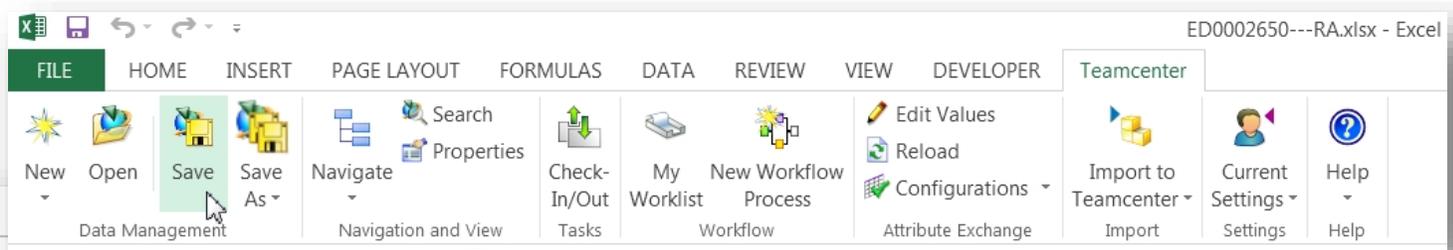
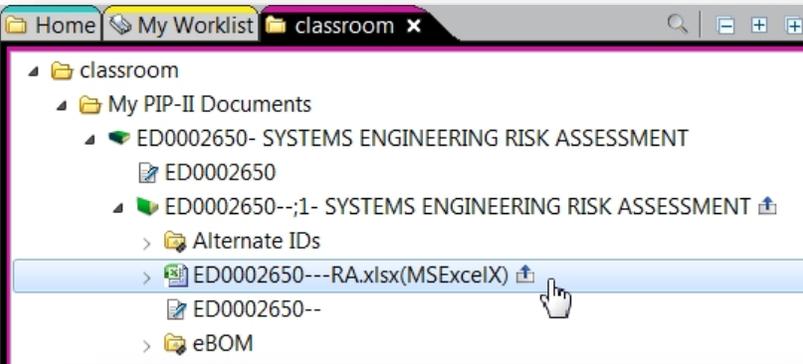


The new *Risk Assessment* has been created. An Excel *Dataset* has been automatically created.

RMB click on the *dataset* and check it out.

When asked, click *OK*.



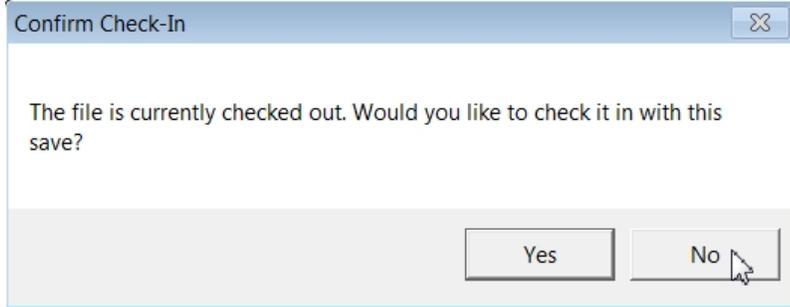


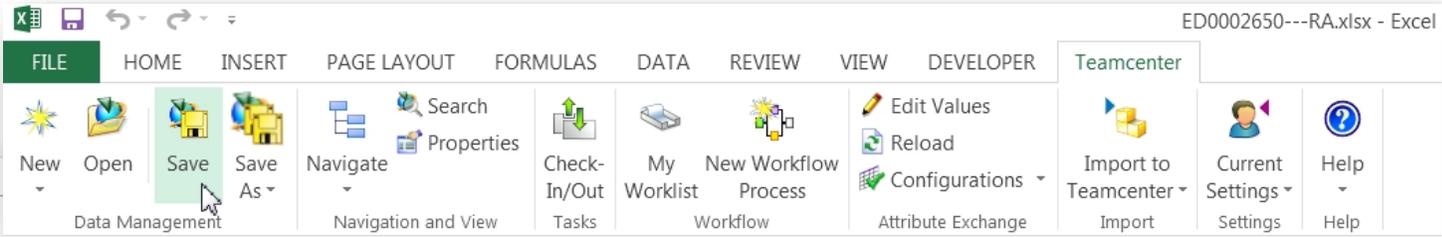
	A	B	C
1	Engineering Risk Assessment		
2			
3	Project: PIP-II Systems Engineering and Integration		
4	Lead Engineer: Don Mitchell		
5	Department: PIP-II		
6	Date: March 13, 2015		
7			
8	Technology		Score
9	This defines the degree of technical complexity the Lead Engineer or engineer the project.		5 - High Risk
10	1 The project will use off-the-shelf technology.		1 - Low Risk
11	3 Engineers will purchase and modify off-the-shelf technology.		2 - Low to Medium Risk
12	5 The project will require the development of new technology.		3 - Medium Risk
13			4 - Medium to High Risk
14	Environmental Impact		1 - Low Risk
15	This defines the potential level of environmental impact.		1
16	1 There will be no environmental impact.		
17	3 The project may have some environmental impact but will not require an environmental assessment, as determined by FESHM.		
18	5 The project will require an environmental impact statement.		
19			

Double-click on the Dataset to launch it into Excel. Before you begin to edit the file, make sure that the *Teamcenter Save* icon is not grayed-out.

Edit as necessary and *Save* often.

Fill in all of the categories on sheet 1 of the Risk Assessment. Then go to sheet 2.





Engineering Risk Assessment											
Project: PIP-II Systems Engineering and Integration											
Lead Engineer: Don Mitchell											
Department: PIP-II											
Date: March 13, 2015											
Engineering Risk Element								High Risk	Subtotal	Assessment	
Chapter	A	B	C	D	E	F	G				
1 Requirements and Specifications	5	1				1		≥ 10	7	High Risk	
3 Requirements and Specification Review	5	1		3	2	1		≥ 16	12	High Risk	
4 System Design	5	1	3		2	1	1	≥ 19	13	High Risk	
5 Engineering Design Review	5	1	3		2	1	1	≥ 19	13	High Risk	
6 Procurement and Implementation		1		3	2	1	1	≥ 16	8	Standard Risk	
7 Testing and Validation	5				2	1	1	≥ 13	9	High Risk	
8 Release to Operations						1		≥ 4	1	Standard Risk	
9 Final Documentation		1				1		≥ 7	2	Standard Risk	
Project Risk Element								High Risk	Subtotal	Assessment	
H	I	J	K	L	M	N	O				
2	5	3	3	1	4	1	1	≥ 25	20	High Risk	
Engineering Risk Elements				Project Risk Elements							
A	Technology			H	Schedule						
B	Environmental Impact			I	Interfaces						
C	Vendor Issues			J	Experience / Capability						
D	Resource Availability			K	Regulatory Requirements						
E	Safety			L	Project Funding						
F	Quality Requirements			M	Project Reporting Requirements						
G	Manufacturing Complexity			N	Public Impact						
				O	Project Cost						

Review the results of your assessment on sheet 2.

Use the Graded Approach to assess what documentation areas will require more rigor.

Use this information to help guide you through the development of the *Engineering Process Documentation Management (EPDM)* form.

On your last Save, click *Yes – check-in with this save.*

