

Automation Specialist Level 1

Course Structure

Introduction

- Getting Started - Introduction to Tosca
- Getting Started - The System Under Test

Core Knowledge

- TestCase 1 Shipping Costs

- TestCase 2 Payment Process
- TestCase 3 Discount Code
- TestCase 4 Reorder
- TestCase 5 Total Price all Orders

Additional Challenges

- Two obstacles from the Obstacle course

Certification

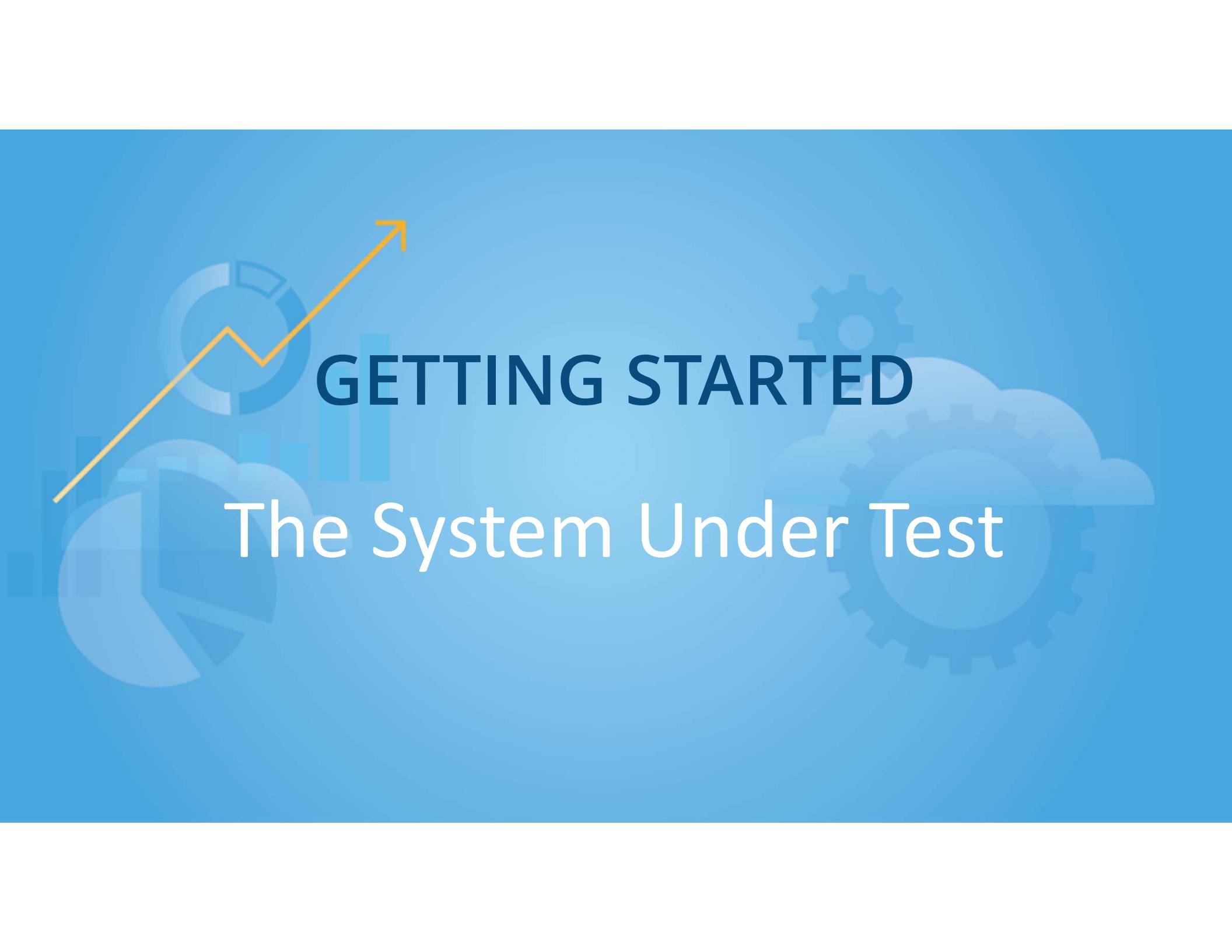
- Assessments per TestCase
- Final Exam



Tricentis Academy

academy@tricentis.com

www.tricentis.com/academy



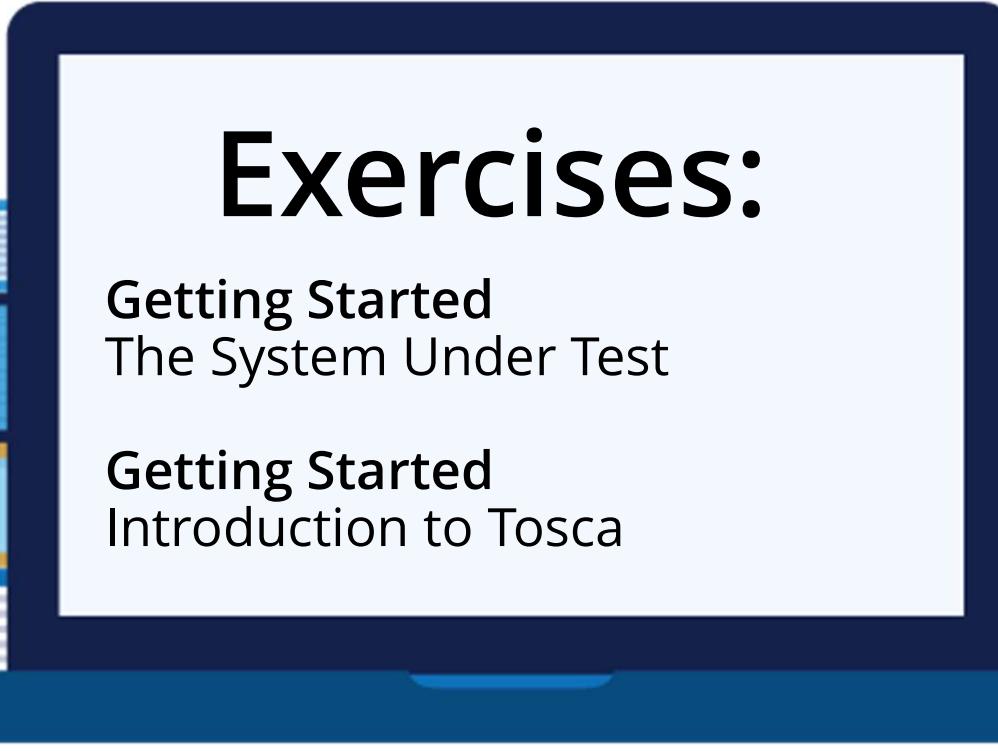
GETTING STARTED

The System Under Test



GETTING STARTED

Introduction to Tosca



Exercises:

Getting Started
The System Under Test

Getting Started
Introduction to Tosca

Quiz

When working in a single-user workspace, who can access this workspace?

- As many users as needed
- The user who has access to the workspace's local file
- Only a user who is an administrator can be assigned to the workspace
- No more than 2 users, one of which has to be an administrator, can be assigned to the workspace

Quiz

When working in a single-user workspace, who can access this workspace?

- As many users as needed
- The user who has access to the workspace's local file
- Only a user who is an administrator can be assigned to the workspace
- No more than 2 users, one of which has to be an administrator, can be assigned to the workspace

Quiz

What is a Subset?

- A Subset is a file containing Tosca artifacts that can be shared with other projects
- A Subset is a file containing Tosca artifacts that cannot be shared with other projects
- A Subset is a file containing artifacts from outside applications
- A Subset is a file that can also be used in outside applications like Excel

Quiz

What is a Subset?

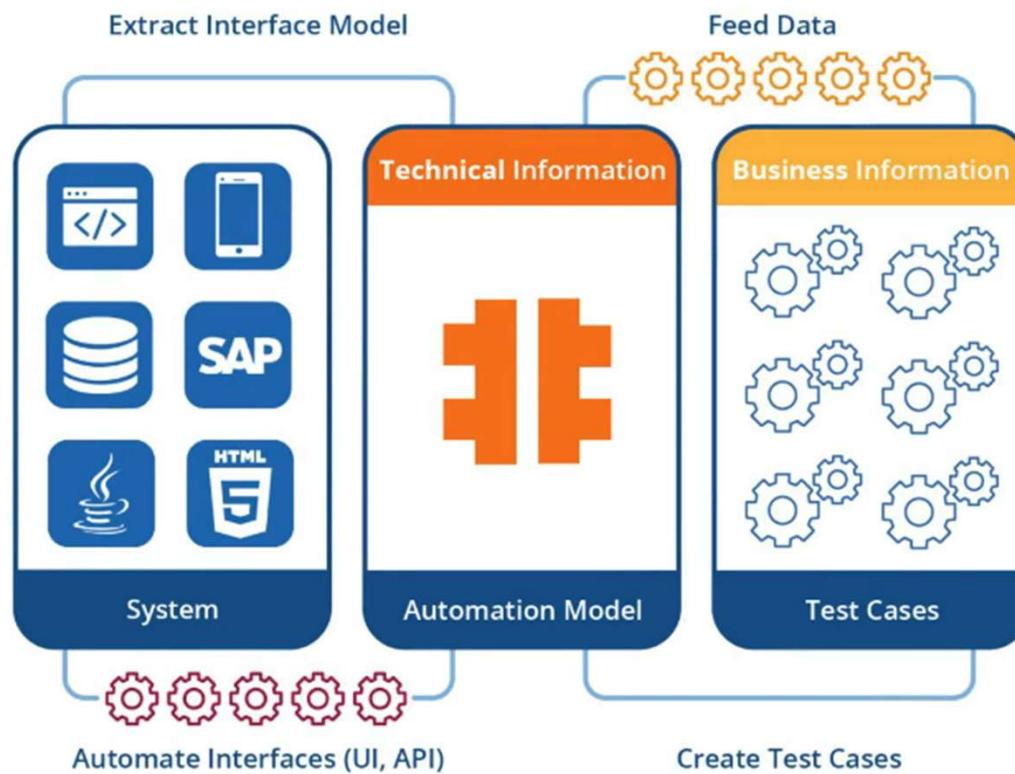
- A Subset is a file containing Tosca artifacts that can be shared with other projects
- A Subset is a file containing Tosca artifacts that cannot be shared with other projects
- A Subset is a file containing artifacts from outside applications
- A Subset is a file that can also be used in outside applications like Excel



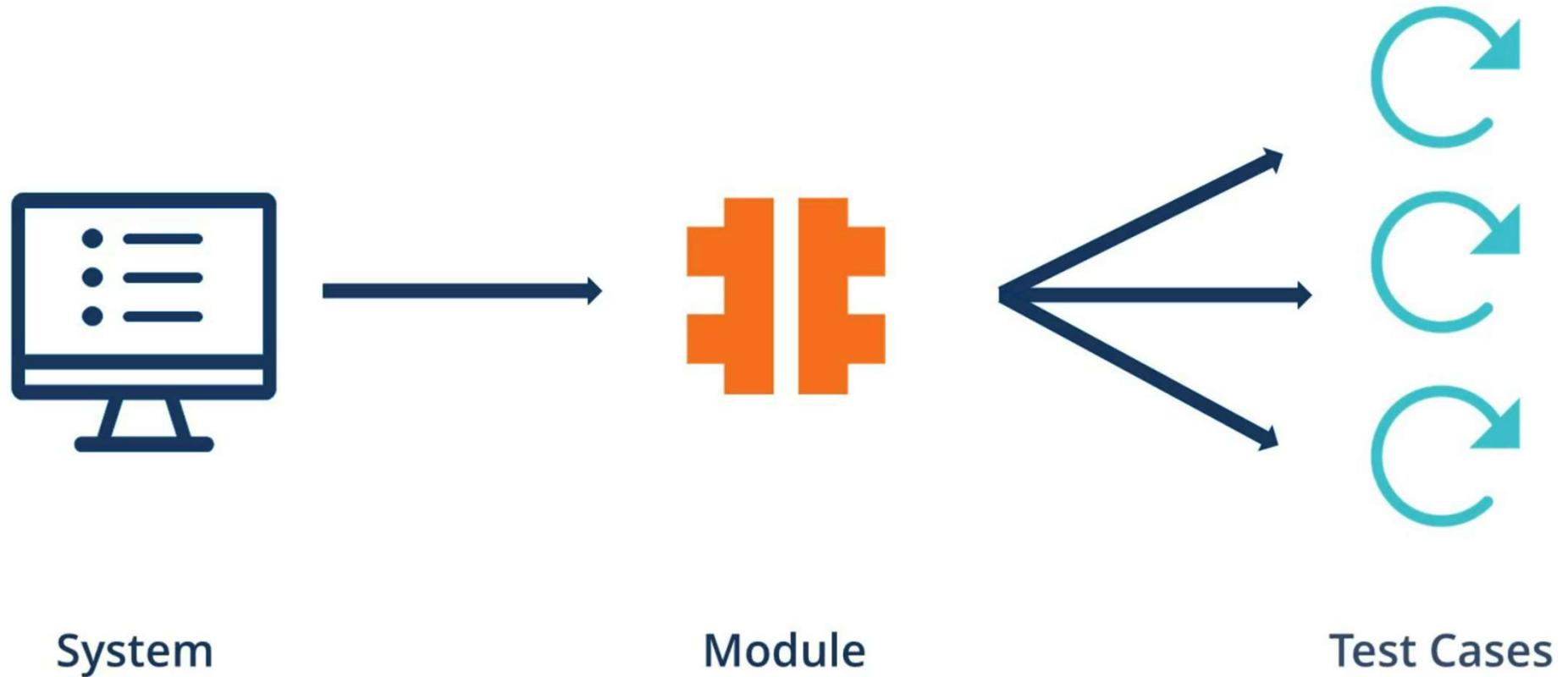
LESSON 01

Creation of a Module

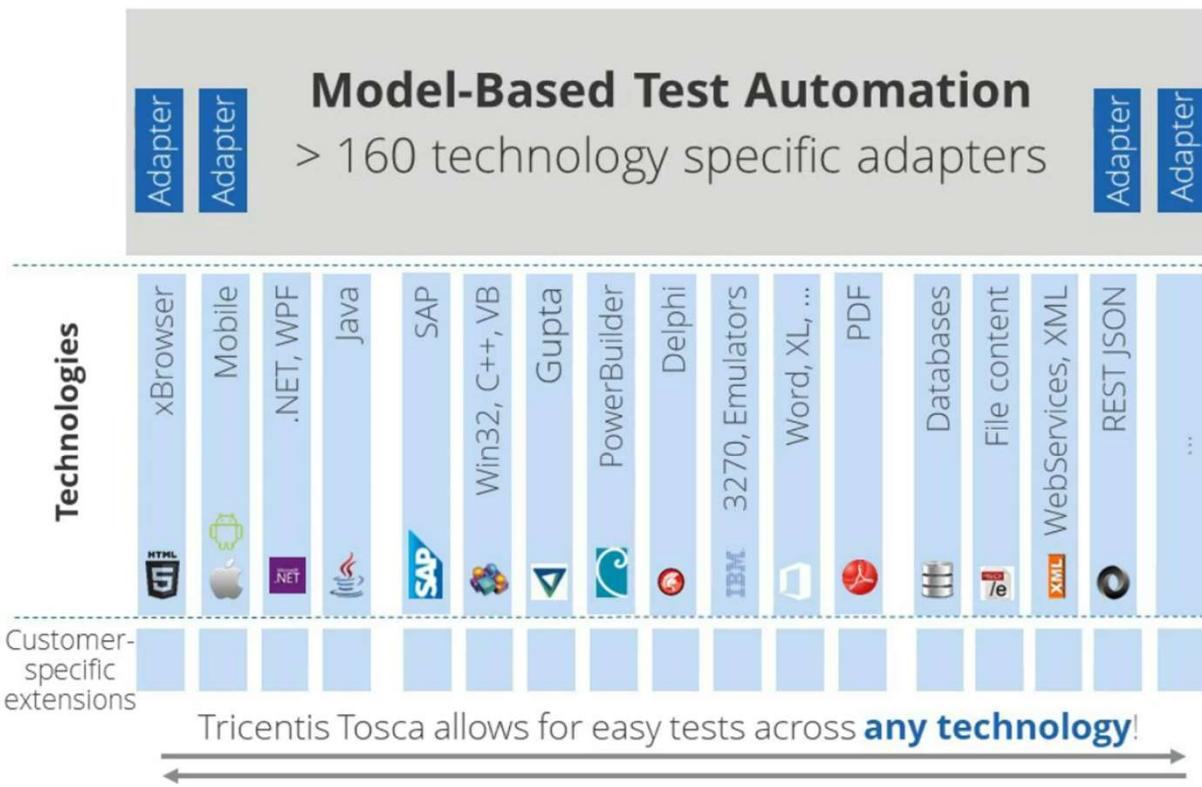
MODEL-BASED TEST AUTOMATION



REDUCED MAINTENANCE



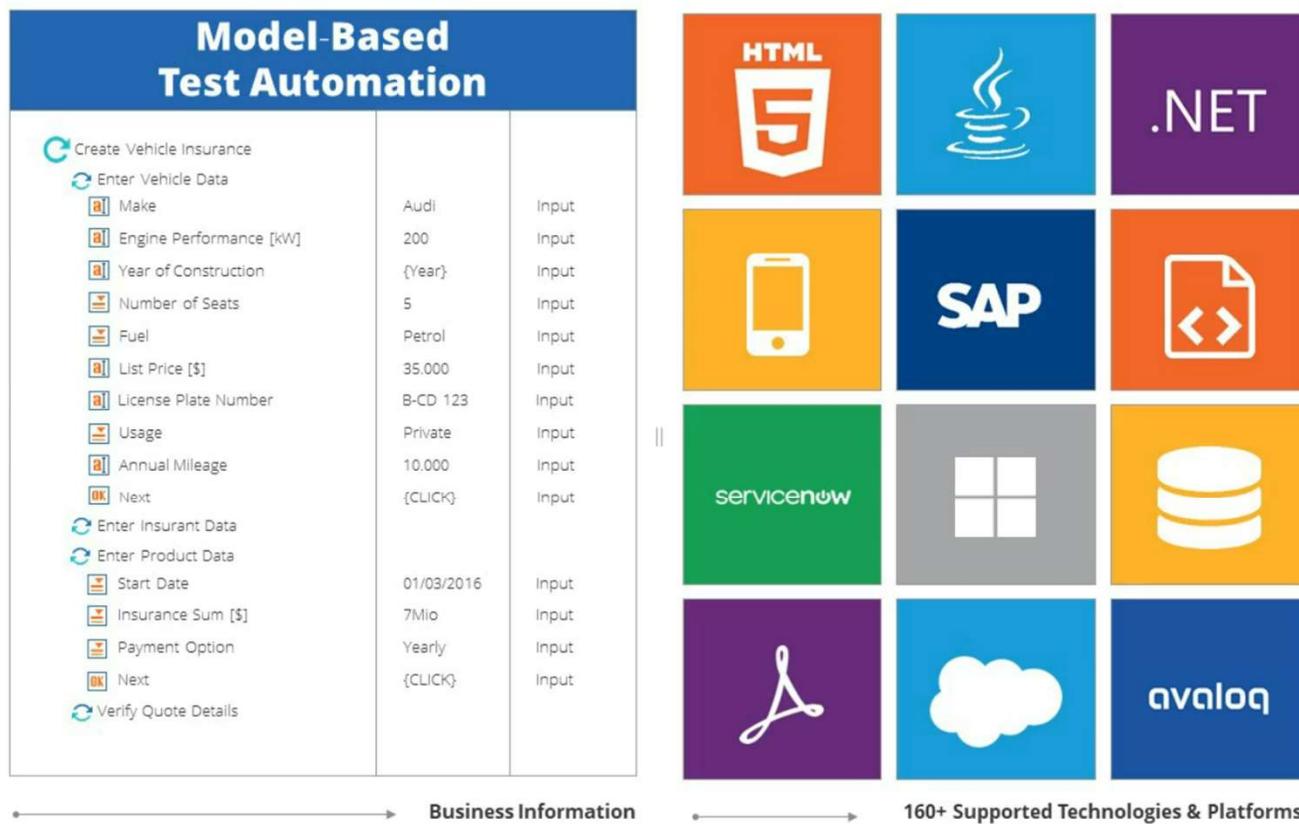
TRICENTIS MODEL-BASED TEST AUTOMATION



ADVANTAGES OF MODEL-BASED TESTS

Model-Based		Script-Based	
		 Browser	 Browser
 Enter Vehicle Data	Audi	Input	
 Make	200	Input	
 Engine Performance [kW]	{year}	Input	
 Year of Construction	5	Input	
 Number of Seats	Petrol	Input	
 Fuel	35.000	Input	
 List Price [\$]	B-CD 123	Input	
 License Plate Number	Private	Input	
 Usage	10.000	Input	
 Annual Mileage	{CLICK}	Input	
 Next			
 Enter Insurance Data			
 Enter Product Data	01/03/2016	Input	
 Start Date	7Mio	Input	
 Insurance Sum [\$]	Yearly	Input	
 Payment Option	{CLICK}	Input	
 Next			
 Verify Quote Details		Select	
 Price List		Select	
 Insurance Sum	1.535,22	Verify	
 Gross Premium [\$]			
Business Information			Do you see the business information?

TRICENTIS MODEL BASED TEST AUTOMATION





NAMING CONVENTIONS

Keep your project readable and make it easier for everyone:

- ↳ Modules
 - ↳ Insurance Calculator
 - ↳ General
 - ↳ Header, Insurance Calc.
 - ↳ Navigation
 - ↳ Insurance Calculator Footer



- ↳ Modules
 - ↳ Insurance Calculator
 - ↳ General
 - ↳ Insurance Calculator | Header
 - ↳ Insurance Calculator | Navigation
 - ↳ Insurance Calculator | Footer





REPOSITORY STRUCTURE

- **Template**
 - 01_Templates and references
 - 1_<PROJECT>
 - TestCaseDesign
 - TestCases
 - 02_Relevant for all projects
 - Libraries
 - Standard Tosca modules
 - 03_<PROJECT>
 - 1_<PROJECT>_Requirements
 - Agile Env
 - 1_<SPRINT NAME>
 - 2_<SPRINT NAME>
 - 1_<APPLICATION>
 - 2_<APPLICATION>_Backlog
 - 2_<PROJECT>_TestCaseDesign
 - 1_<APPLICATION>_TestCaseDesign
 - 98_TDM Definition
 - 99_Test Data Preperation
 - InWork_<USER>
 - 3_<PROJECT>_TestCases
 - 1_Approved_TestCases
 - 1_<APPLICATION>_TestCases
 - 1_<FUNCTION>
 - 2_<FUNCTION>
 - 2_Ready for approval_TestCases
 - Rdy_<USER>
 - 3_InWork_TestCases
 - InWork_<USER>
 - 4_Rejected_TestCases
 - 10_Libraries_TestCases
 - <SUBAPPLICATION>_Library
 - <SUBAPPLICATION>_Library
 - 11_Out of scope_TestCases
 - 12_Duplicate_TestCases
 - 99_Virtual Folders_TestCases
 - 4_<PROJECT>_Execution
 - 1_Approved_Execution
 - 1_Smoke test
 - <APPLICATION>_Smoke test
 - 2_Regressiontest
 - <APPLICATION>_Regression
 - 3_Sprints
 - <APPLICATION>_<SPRINTNAME>
 - 2_Ready for approval_Execution
 - Rdy_<USER>
 - 3_InWork_Execution
 - InWork_<USER>
 - Exploratory Testing
 - 5_<PROJECT>_Modules





FOUR – EYES PRINCIPLE

Use the three approval stages for artifact creation:

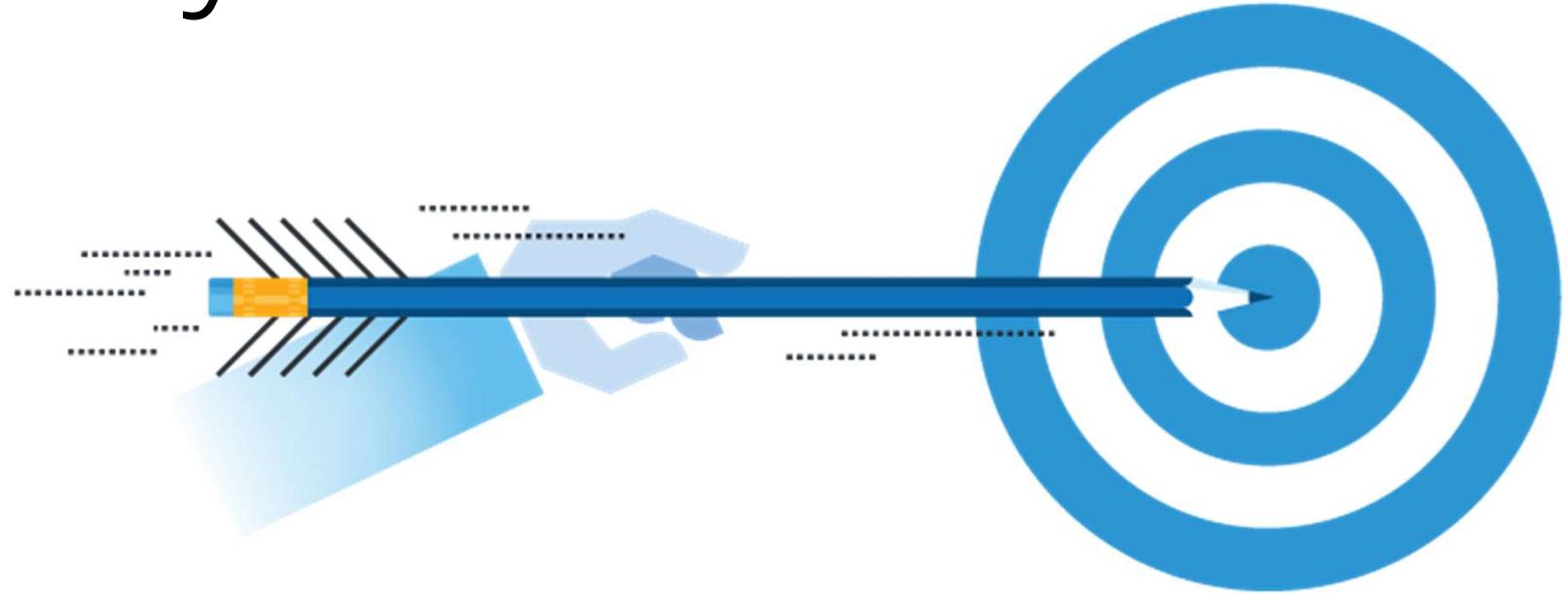
- ↳ Modules
 - ↳ Insurance Calculator
 - ↳ General
 - ↳ Vehicle Insurance Calculator | Top Navigation
 - ↳ Vehicle Insurance Calculator | User Section
 - ↳ Vehicle Insurance Calculator | Bottom Navigation



- ↳ Modules
 - ↳ Insurance Calculator
 - ↳ Completed
 - ↳ General
 - ↳ Vehicle Insurance Calculator | Top Navigation
 - ↳ Vehicle Insurance Calculator | User Section
 - ↳ Vehicle Insurance Calculator | Bottom Navigation
 - ↳ Ready for approval
 - ↳ John Doe
 - ↳ Jane Doe
 - ↳ In Work
 - ↳ John Doe
 - ↳ Jane Doe



Key Points





Module Folder

Found within the Modules section, this folder is used to organize Modules



Module

Element containing technical steering information of an application

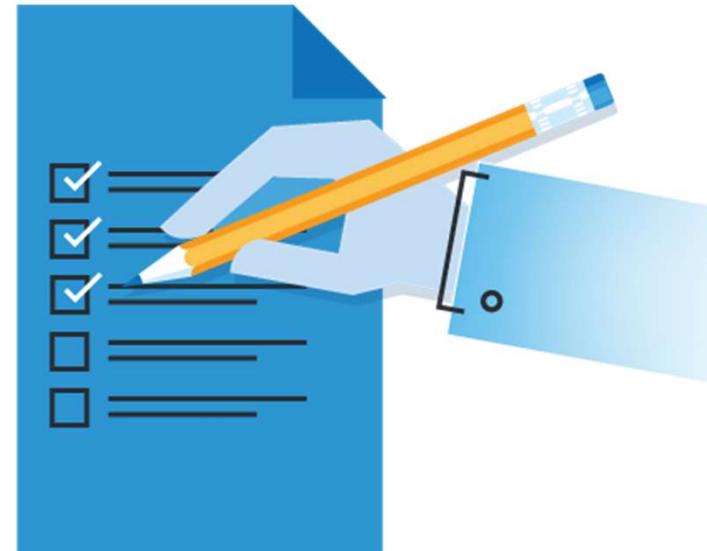


ModuleAttributes

Representations of individual controls
of an application, contained in Modules

5 Methods of Identification in the XScan

1. Own properties
2. Parent control
3. Anchor control
4. Image
5. Index





ControlGroup

A group of link, button or radio button controls within a Module

When using a TestStep containing ControlGroups, controls are selected as values from a drop-down list

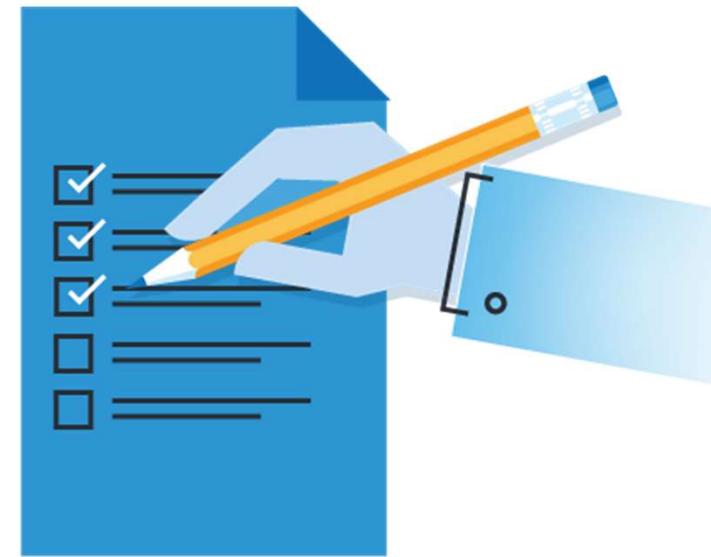
How to Create a Module

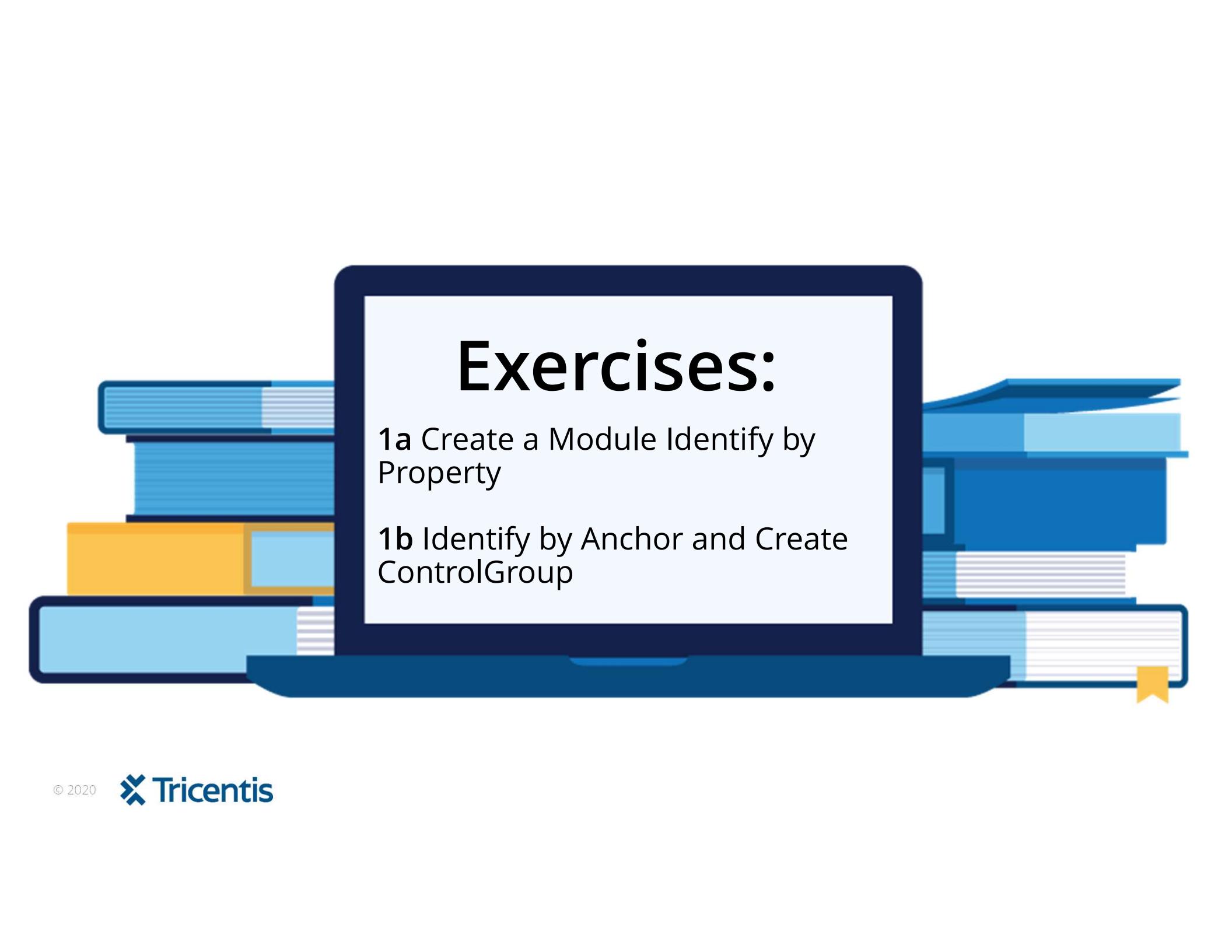
1. Scan application page using XScan
2. Select necessary Controls
3. Uniquely identify each Control
4. Rename the Module
5. Save



How to Create a ControlGroup

1. Select necessary ModuleAttributes
2. Right Click
3. Choose *Convert to ControlGroup*
4. Rename the ControlGroup





Exercises:

1a Create a Module Identify by Property

1b Identify by Anchor and Create ControlGroup

Quiz

What are the advantages of Tricentis Model-Based Test Automation?
(3 correct answers)

- You can save effort because Tricentis Tosca will automatically scan your System Under Test
- You can save effort because you can create models from scanning your System Under Test
- You can read an end-to-end test easily
- You can save time and effort as Tosca will automatically fill test data into the models
- You can reduce maintenance due to the models being reusable

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- You can save time and effort as Tosca will automatically fill test data into the models
- You can reduce maintenance due to the models being reusable

Quiz

What are the 5 options to identify controls? (5 correct answers)

- Title
- Properties
- Parent
- URL
- View
- Anchor
- Image
- Index

Quiz

What are the 5 options to identify controls? (5 correct answers)

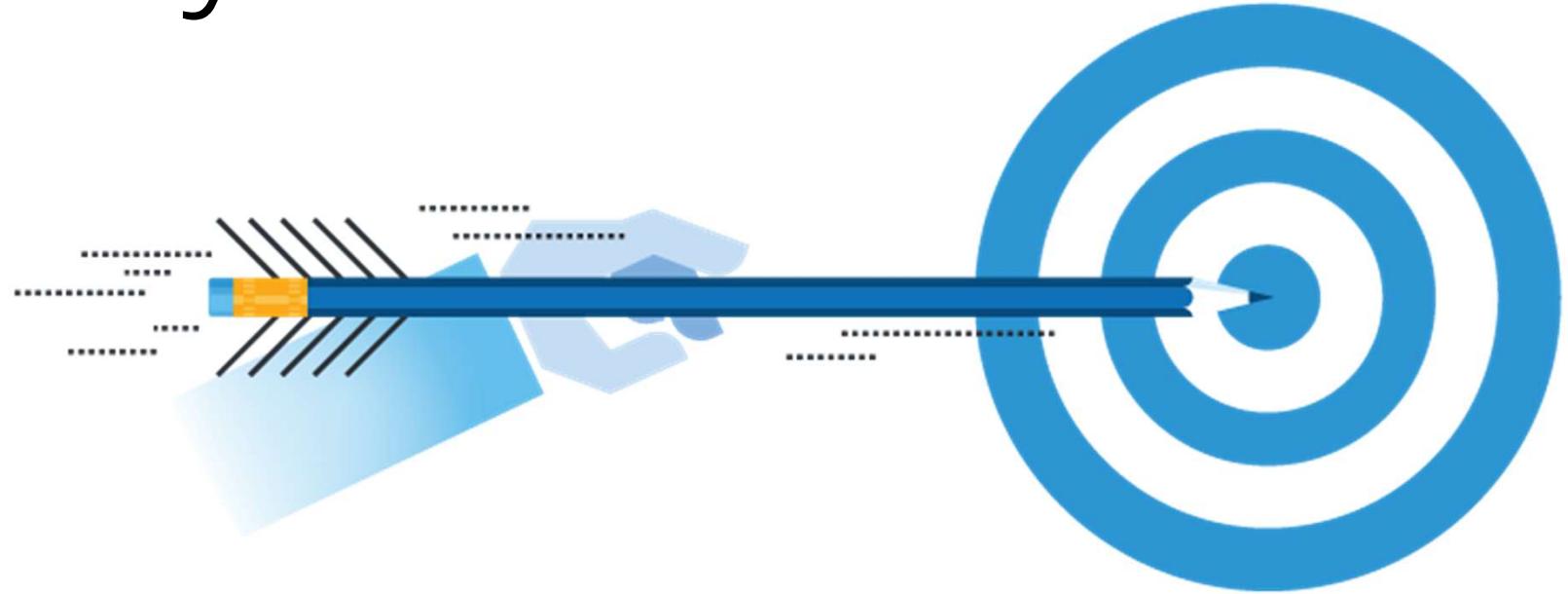
- Title
- Properties
- Parent
- URL
- View
- Anchor
- Image
- Index



LESSON 02

TestCase Structure

Key Points





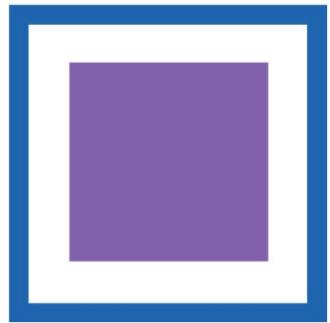
TestCase and TestStep Folders

These folders contain TestCases or TestSteps, respectively



TestCase

Element detailing a specific test sequence

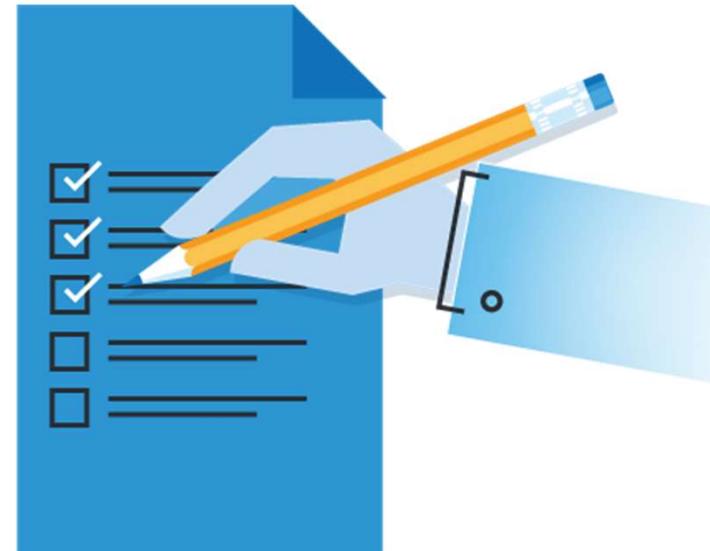


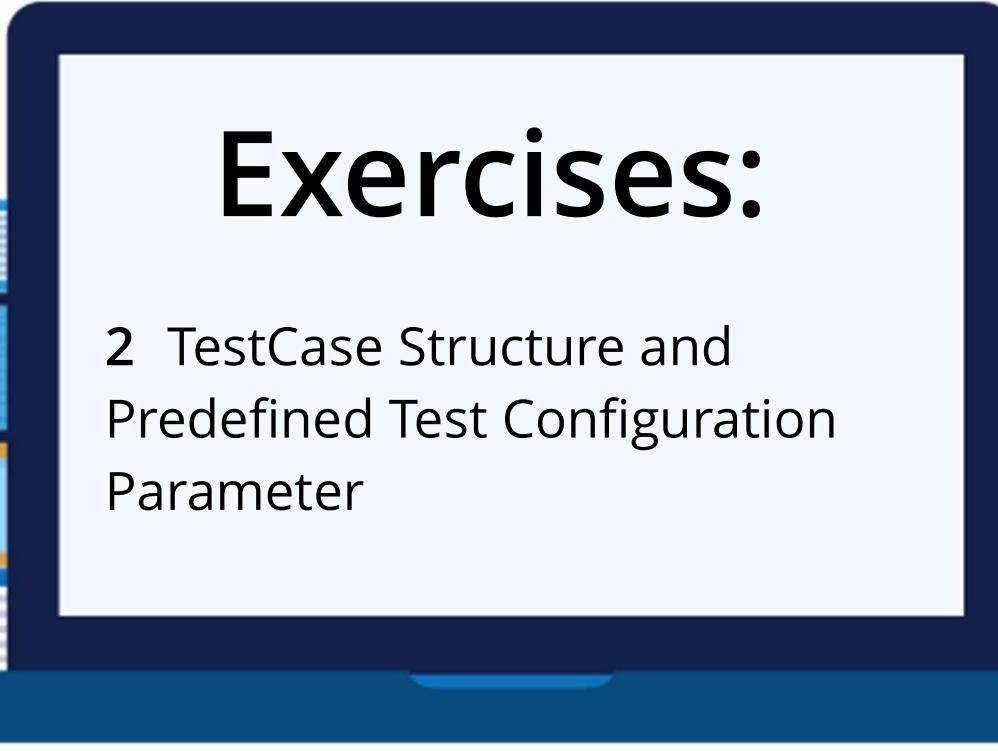
Predefined TCP

Applies predefined values to various TestCases; defined for various object types; naming is case sensitive

How to Create a TestCase Structure

1. Create a TestCase and name it
2. Create a Test Configuration Parameter
3. Create and name TestStep Folders to contain TestSteps





Exercises:

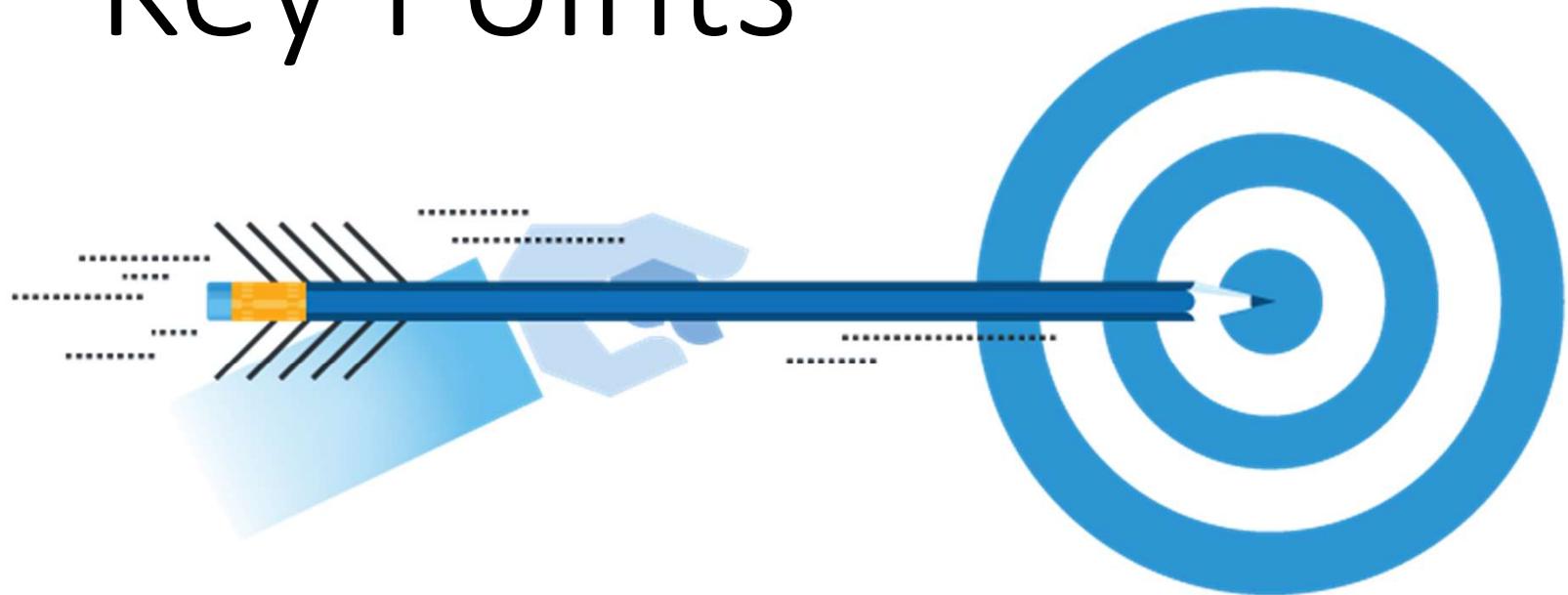
2 TestCase Structure and
Predefined Test Configuration
Parameter



LESSON 03

TestSteps

Key Points



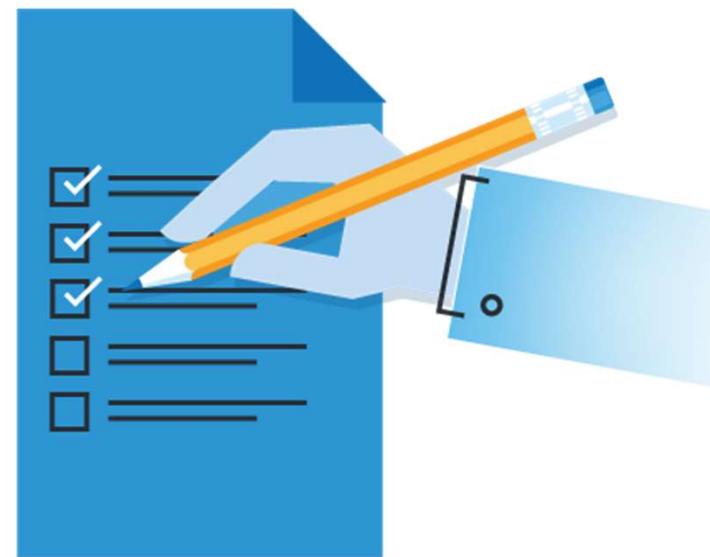


TestStep

The individually defined step of the test sequence

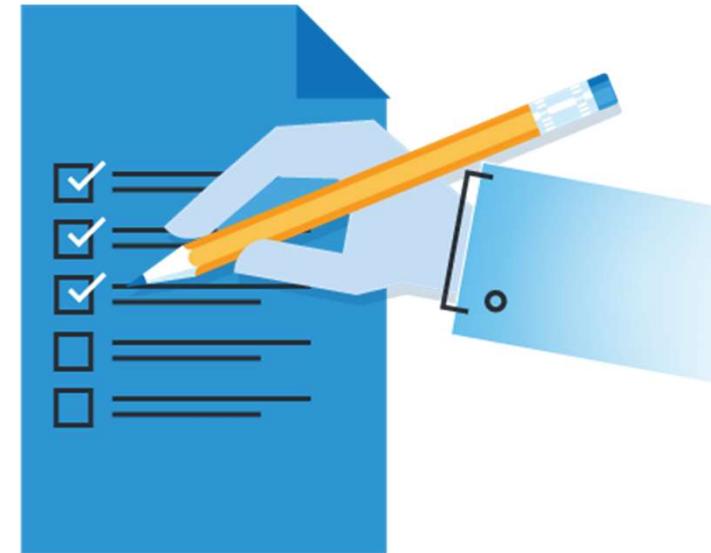
How to Create a TestStep using Drag & Drop

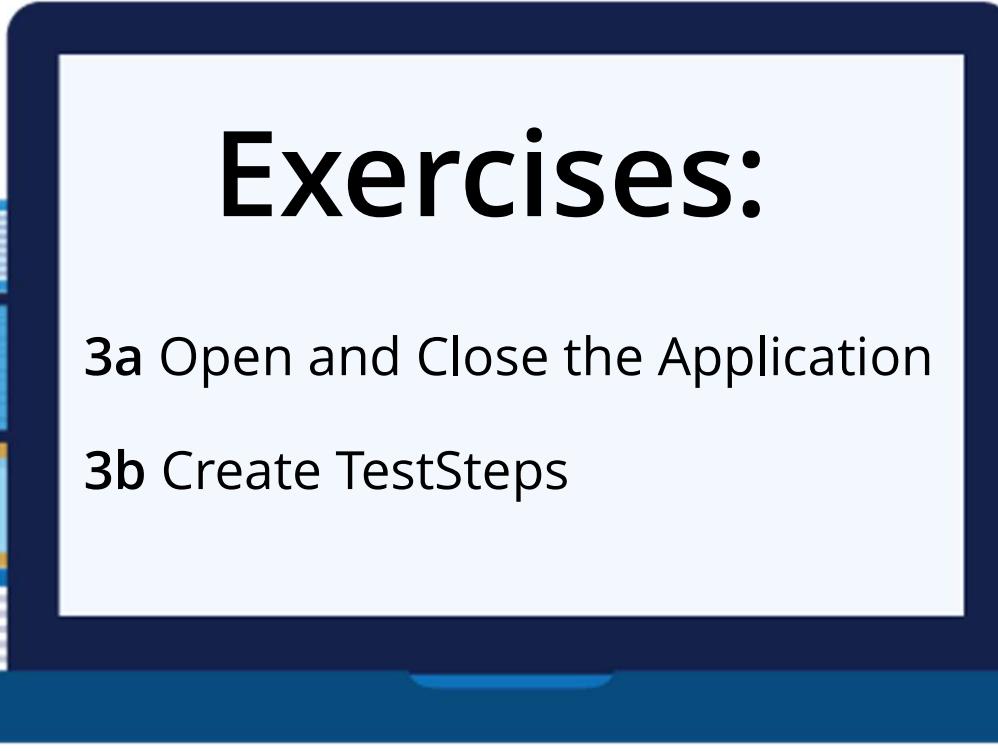
1. Locate necessary Module
2. Drag and drop it into the appropriate TestStep Folder to create a TestStep
3. Rename the TestStep



How to Create a TestStep using Add TestStep Function

1. On object where the TestStep should be added, right click and select “Add TestStep” or press “Ctrl+T”
2. Type in search characters
3. Click on desired Module or use the arrow keys to select and press “Enter”





Exercises:

- 3a** Open and Close the Application
- 3b** Create TestSteps



LESSON 04

TestStepValues

Example TestStepValues

Value
{CLICK}
{ENTER}
X
Insert Text
1234

Dynamic Random Expressions

Value	Value
{<Syntax>}	{RND[5]}
{<Command>[<Parameter>]}	{RND[3][9]}
	{RANDOMTEXT[5]}
	{RNDDECIMAL[5][2]}
	+43/{RND[3]}/{RND[7]}

MATH Expressions

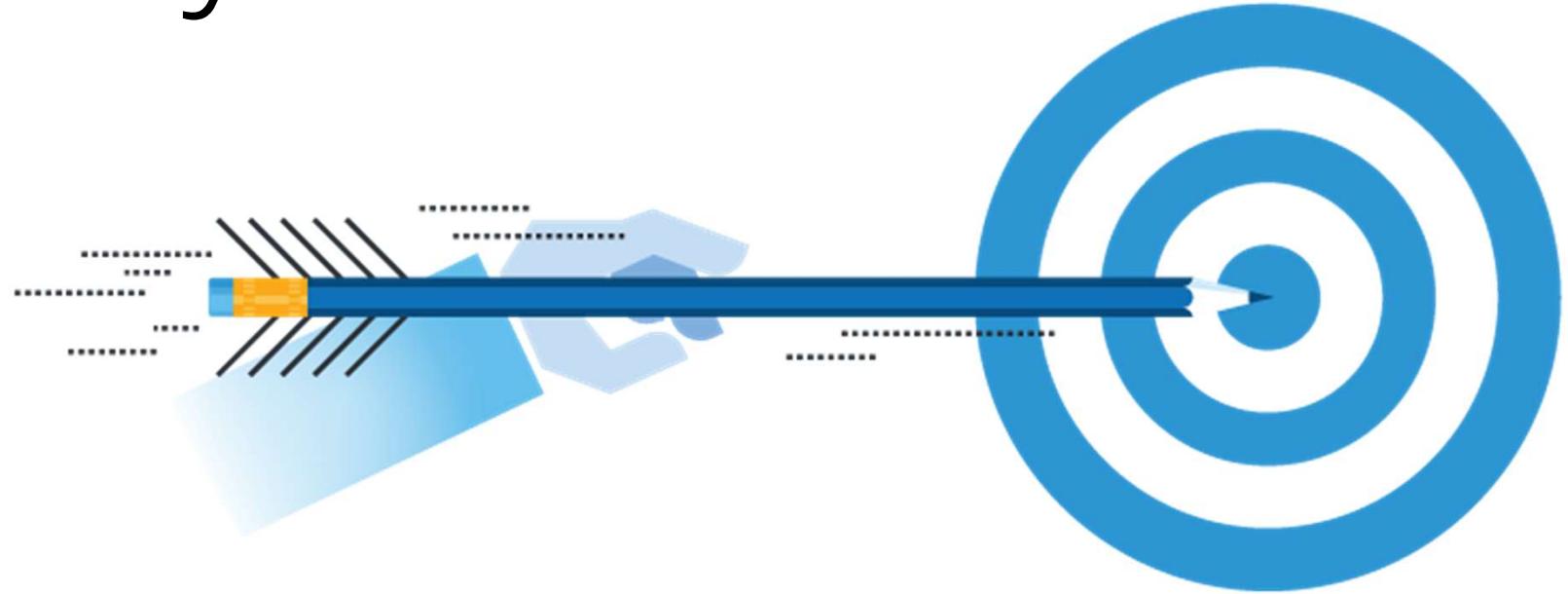
Value

{MATH[<Value 1><Operator><Value 2>..<Operator><Value n>]}

MATH Example

Value
{MATH[10*4.5]}

Key Points



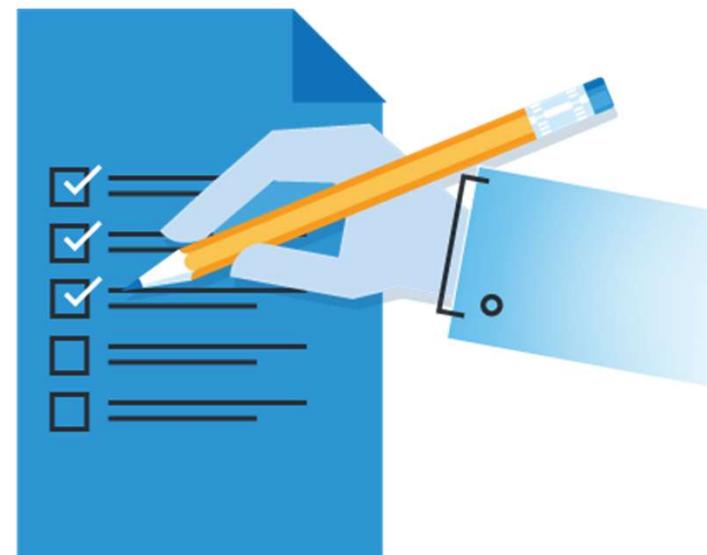


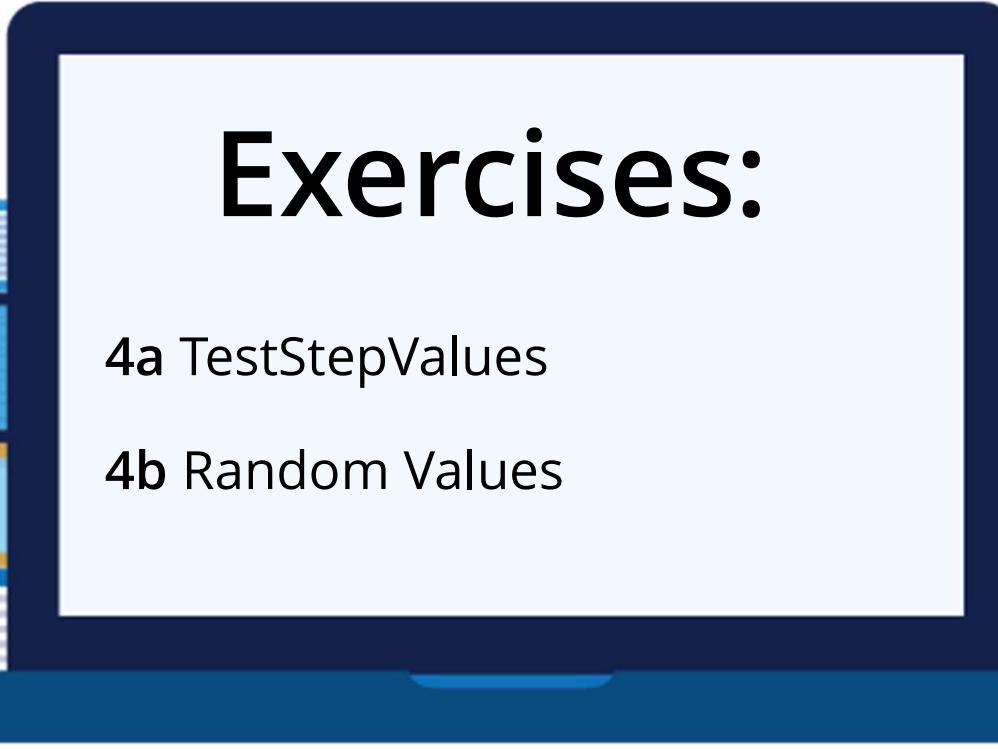
TestStep Value

Element representing a control of the SUT that can be steered by entered test data

How to Steer a Control

1. Locate the necessary control within a TestStep
2. Enter the appropriate Value
3. Enter steering instructions using ActionMode and DataType





Exercises:

4a TestStepValues

4b Random Values



LESSON 05

Dynamic Dates

Dynamic Date Expression

Syntax

```
{EXPRESSION[Basedate][Offset][Format]}
```

{EXPRESSION[Basedate][Offset][Format]}

Expression	Basedate*	Offset	Format
DATE	*According to Tosca date format defined in the Settings	+2y	dd
TIME		-4M	%d
DATETIME		+2w	yy
MONTHLAST			yyyy
MONTHFIRST			%M
	25.12.16		MM
			MMM
			MMMM

Dynamic Date Examples

Syntax

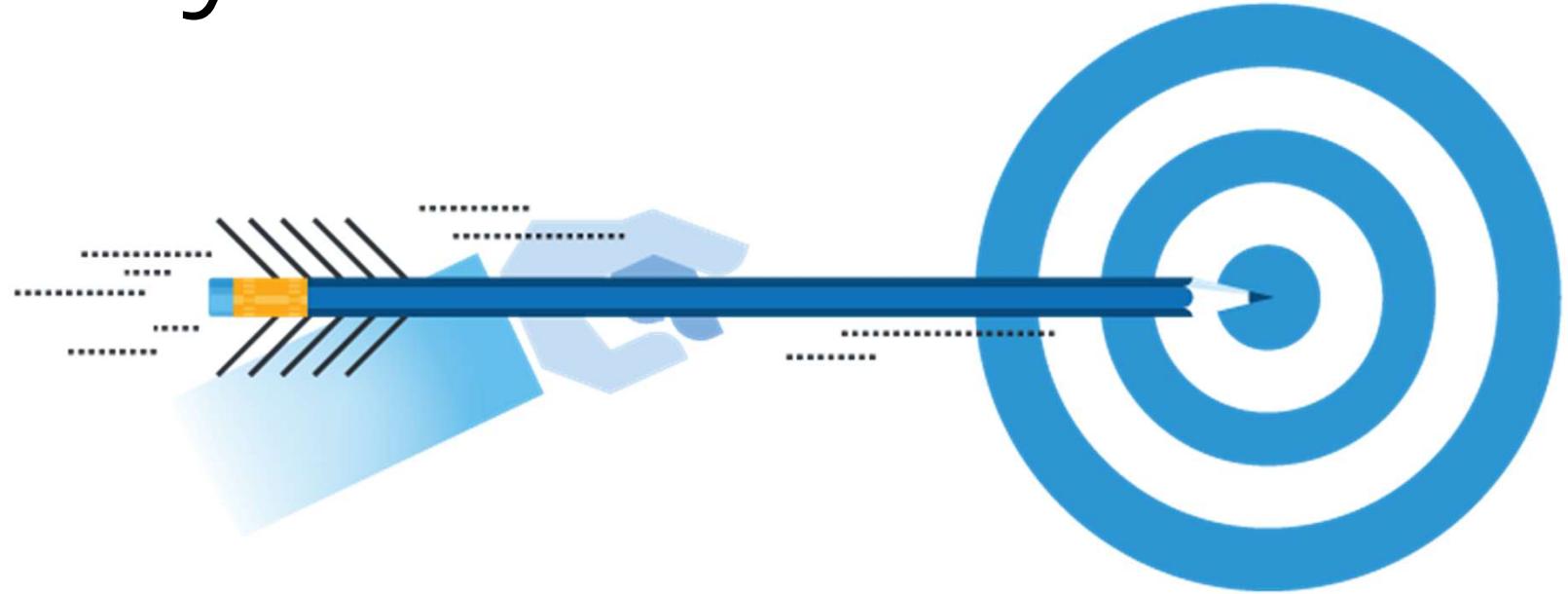
```
{DATE[]][]}
```

```
{DATE[]][yyyy]}
```

```
{DATE[]][+2M][MM]}
```

```
{DATE[03.25.2016][+3y][dd.MM.yy]}
```

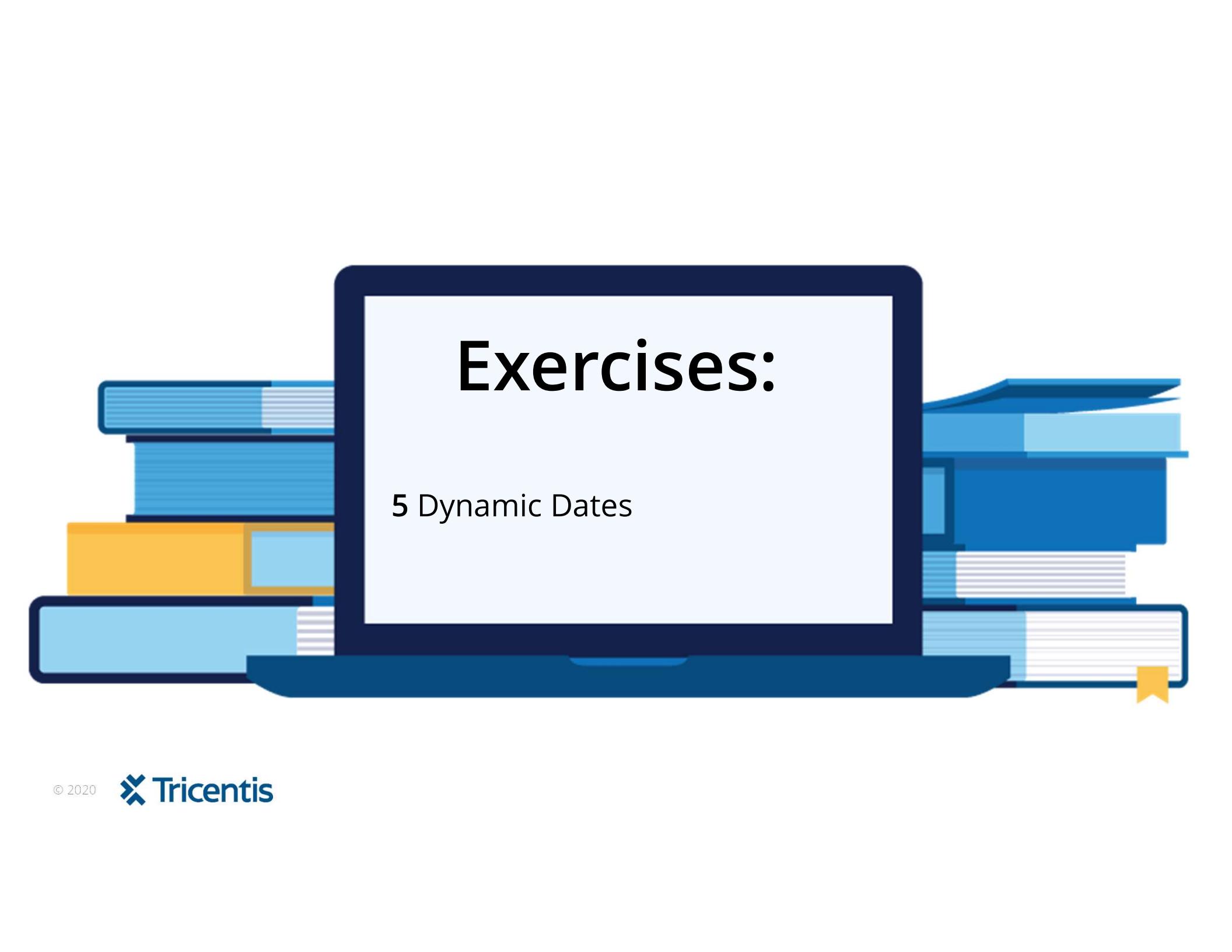
Key Points



How to Use Dynamic Dates

1. Choose the right Date Expression
2. Fill in the base date
3. Enter the desired offset
4. Enter the desired format





Exercises:

5 Dynamic Dates



LESSON 06

ActionModes & Table Steering

ActionModes

ActionMode

Input

Select

Buffer

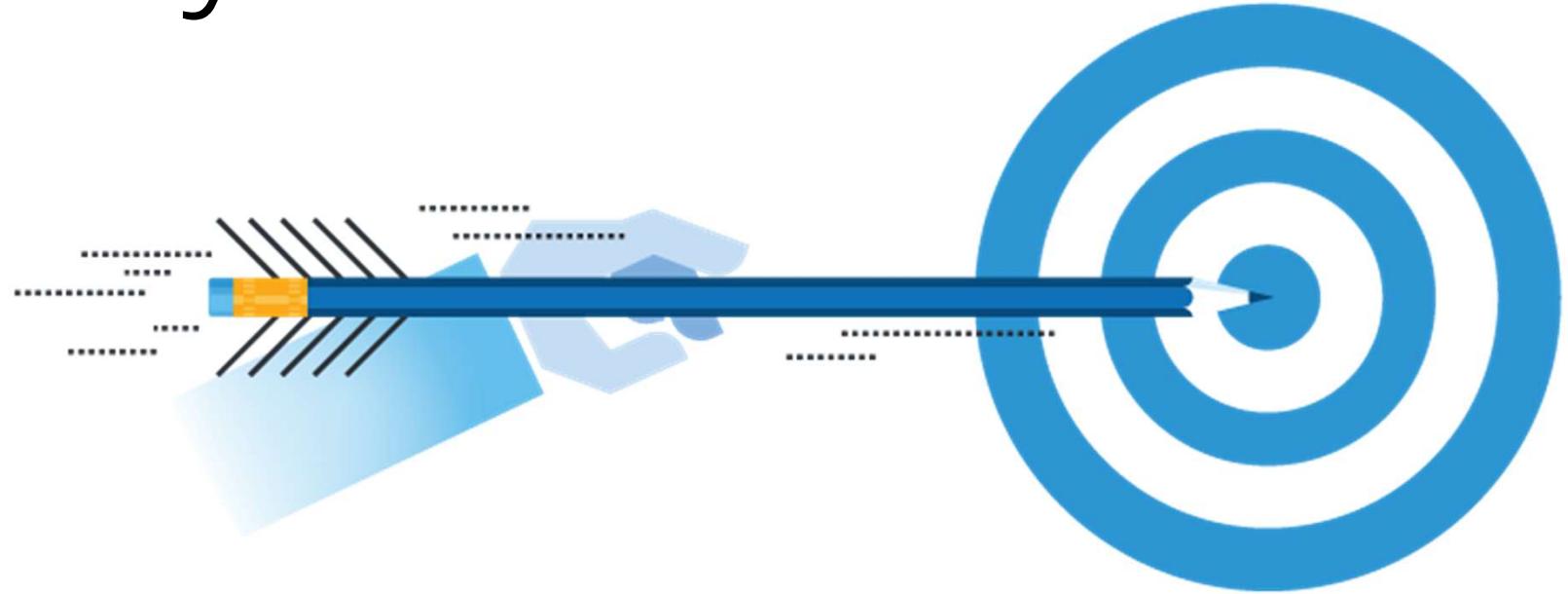
Constraint

Insert

Verify

WaitOn

Key Points



ActionMode
Buffer

ActionMode Buffer

Saves variable values from the SUT to a local buffer (variable storage memory)

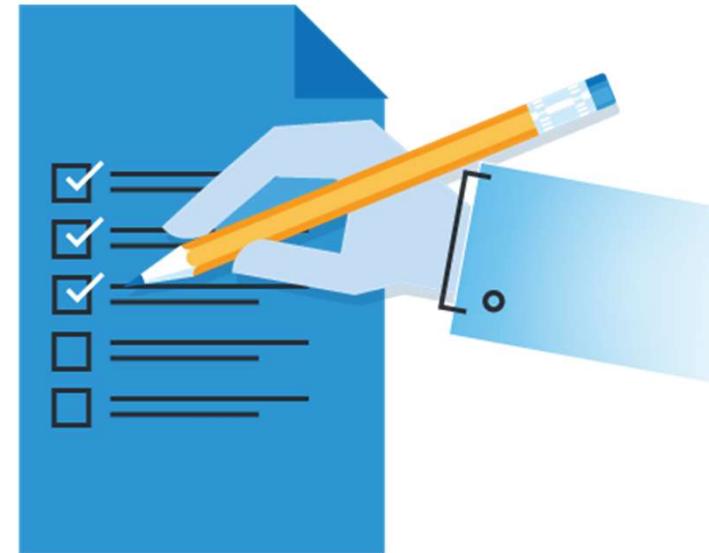
ActionMode
Verify

ActionMode Verify

Checks values of properties in an SUT

How to Set a Buffer

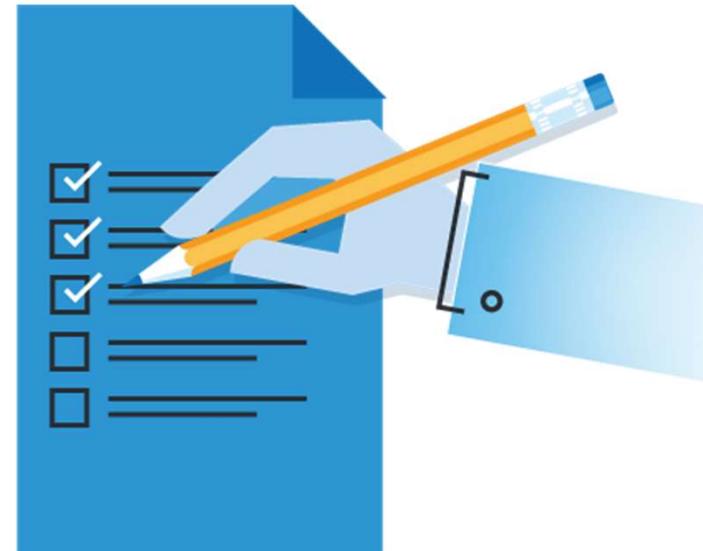
1. Enter a Property (e.g. InnerText) and a Buffer name as the Value of a TestStep Attribute
2. Set ActionMode to Buffer



How to Use a Set Buffer

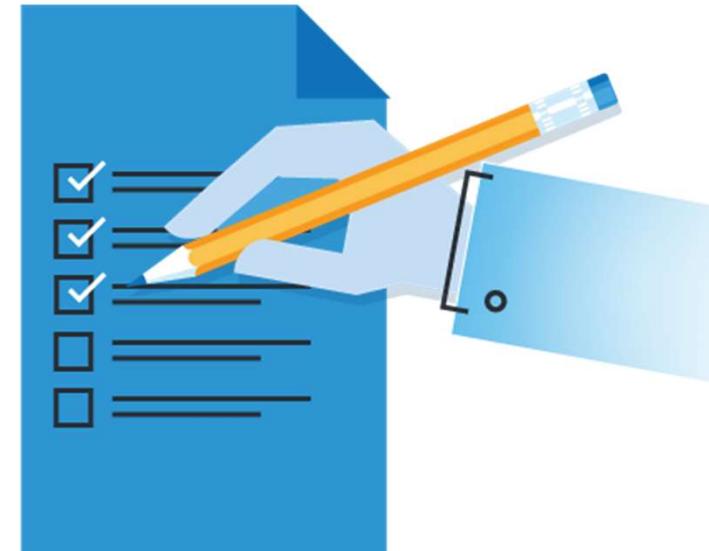
1. Enter {B[<Buffername>]} as the Value of a TestStep Attribute
2. Set ActionMode to Input or Verify

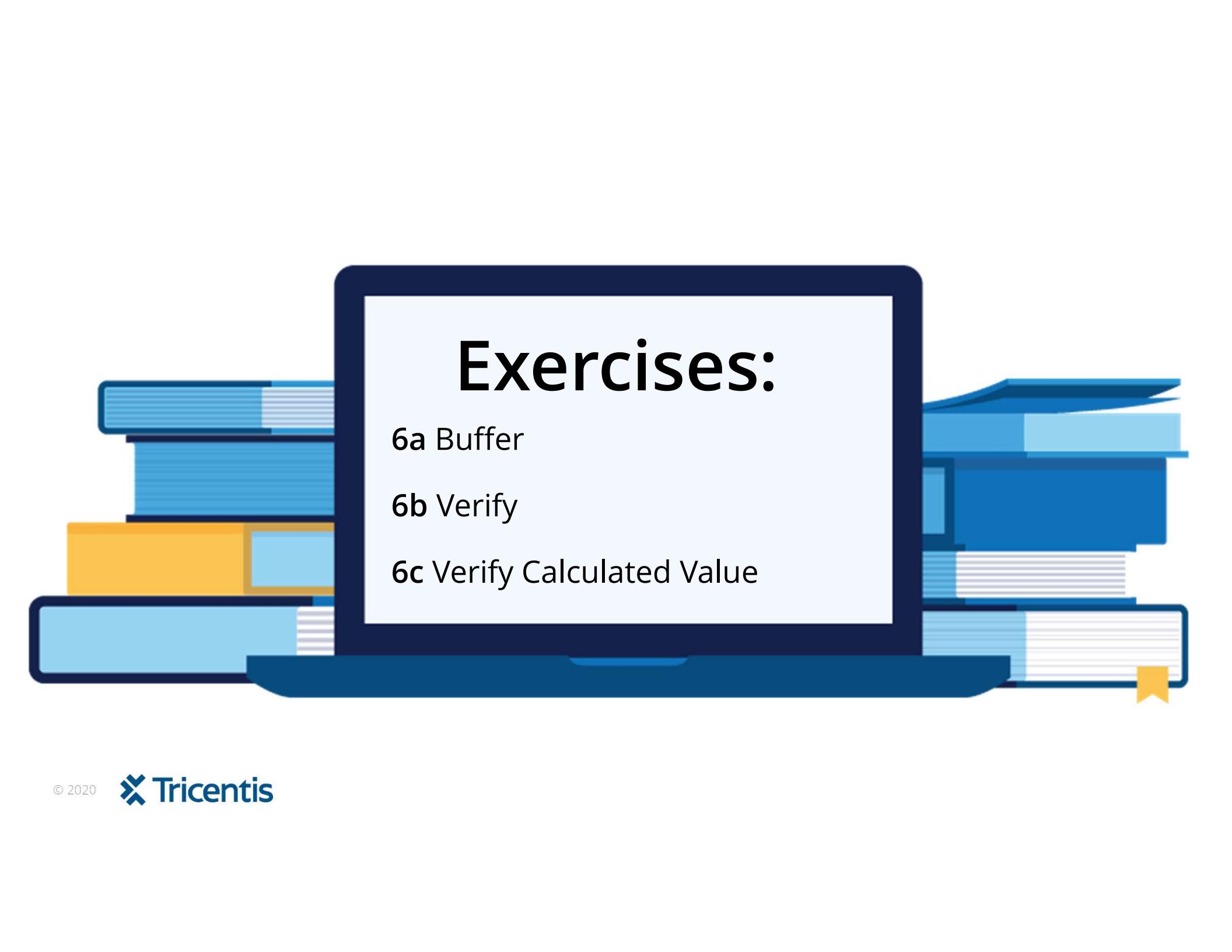
* Stored values can be viewed in the menu item:
Project >> Settings >> Engine >> Buffer



How to Work with Tables

1. Select the table control to work with
2. Select for row or column either a static value like ,#1' or enter dynamic values like ,#{B[<Buffername>]}'
3. Select the cell and enter a value and the corresponding ActionMode for the task





Exercises:

6a Buffer

6b Verify

6c Verify Calculated Value

Recap



LESSON 07

Libraries

Quiz

Once all work on a TestCase is done and ready for review, to which Status should the TestCase WorkState be set?

- Ready
- Done
- IN_WORK
- PLANNED
- COMPLETED

Quiz

Once all work on a TestCase is done and ready for review, to which Status should the TestCase WorkState be set?

- Ready
- Done
- IN_WORK
- PLANNED
- COMPLETED

Quiz

You can use a TCP to add values for identifiers of various test environments. This statement is...

- True
- False

Quiz

You can use a TCP to add values for identifiers of various test environments. This statement is...

- True
- False

Quiz

You can use a TCP to add values for identifiers of various test environments. This statement is...

True

False

Quiz

What options are available if you want to run a test in the ScratchBook? (2 correct answers)

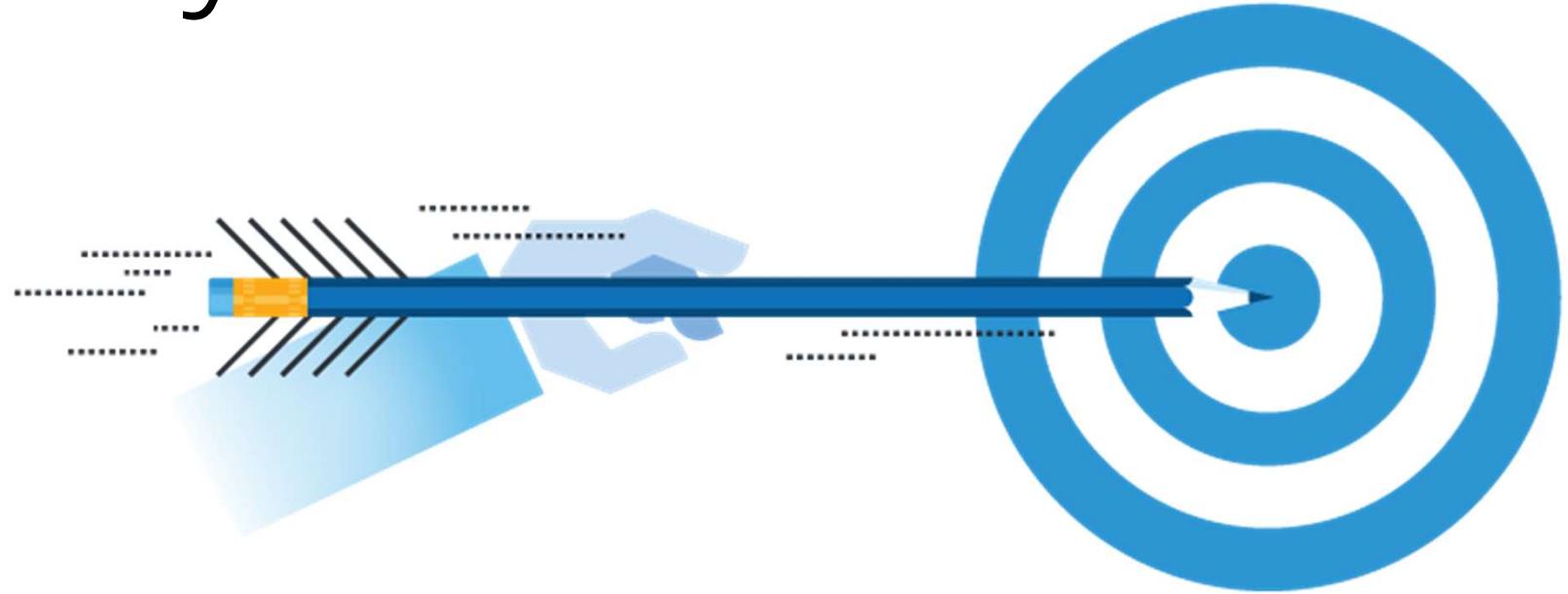
- You can run your objects by selecting them and pressing F6
- You can add and arrange objects in the ScratchBook and then run them
- You need to compile the objects and then run the compiled objects
- The objects will open the necessary locations you need for testing on the SUT, then you fill in the data

Quiz

What options are available if you want to run a test in the ScratchBook? (2 correct answers)

- You can run your objects by selecting them and pressing F6
- You can add and arrange objects in the ScratchBook and then run them
- You need to compile the objects and then run the compiled objects
- The objects will open the necessary locations you need for testing on the SUT, then you fill in the data

Key Points





TestStep Library

Contains Reusable TestStepBlocks; any changes in the Library will automatically update References in TestCases



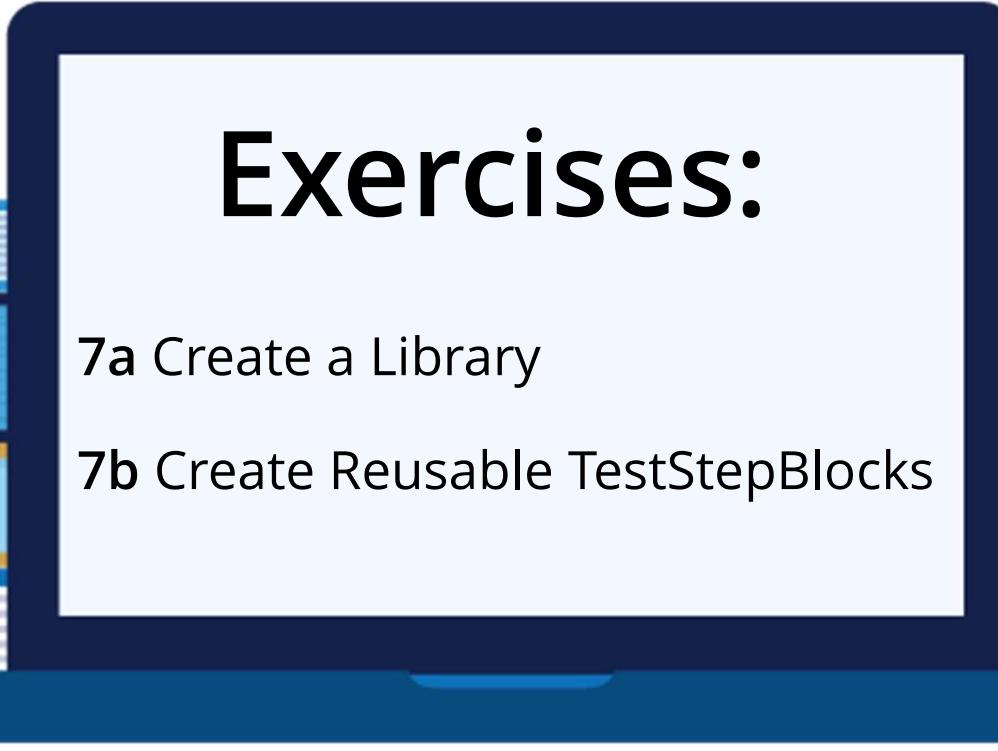
Reusable TestStepBlock

One or more TestSteps that will be reused throughout numerous TestCases; contained within a Library

How to Create Reusable TestStepBlocks

1. Create a TestStep Library within a TestCase Folder
2. Add TestSteps or TestStep Folders to the Library by creating them or dragging and dropping in existing ones





Exercises:

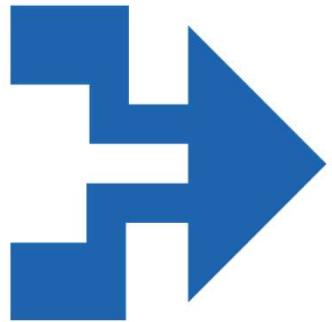
7a Create a Library

7b Create Reusable TestStepBlocks



LESSON 08

Rescan, ValueRange,
ActionMode WaitOn, Module
Merge

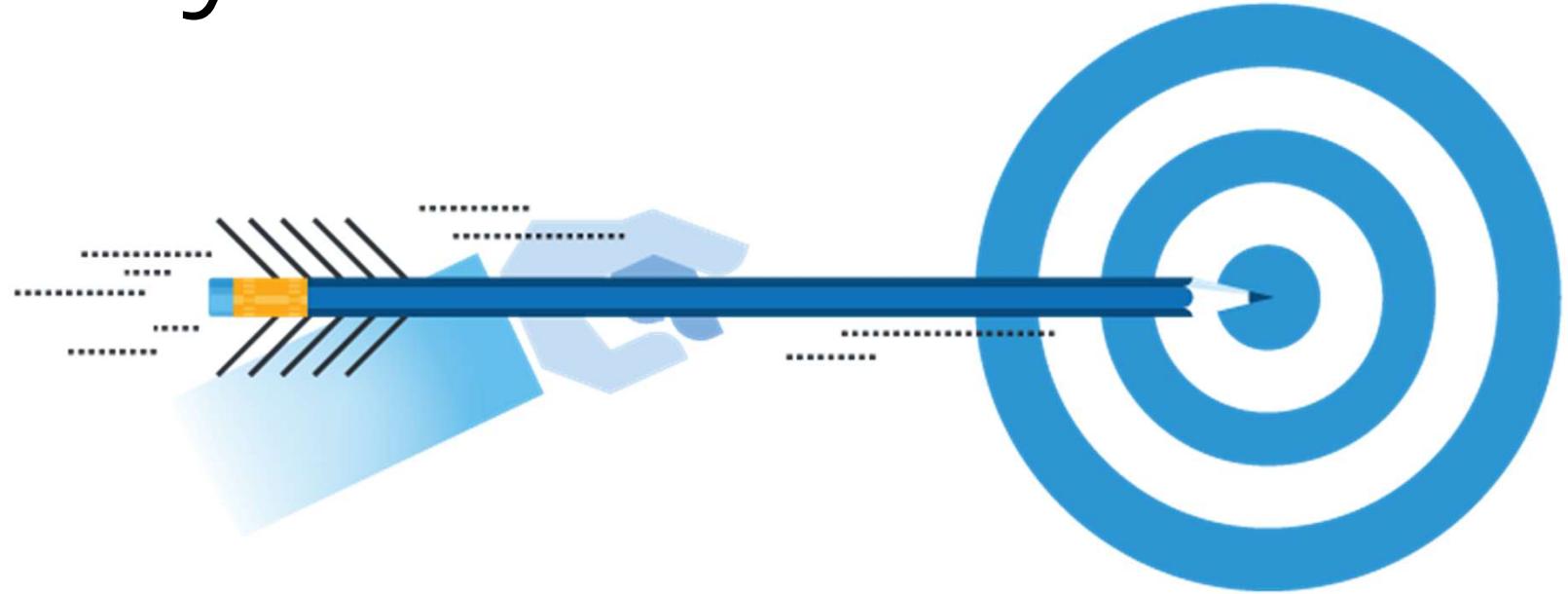


Module Merge function

Allows you to combine 2 Modules together.

In the event that ModuleAttributes are duplicated in the Modules, you can link these Attributes and decide which method of identification you want to keep

Key Points



ActionMode
WaitOn

ActionMode WaitOn

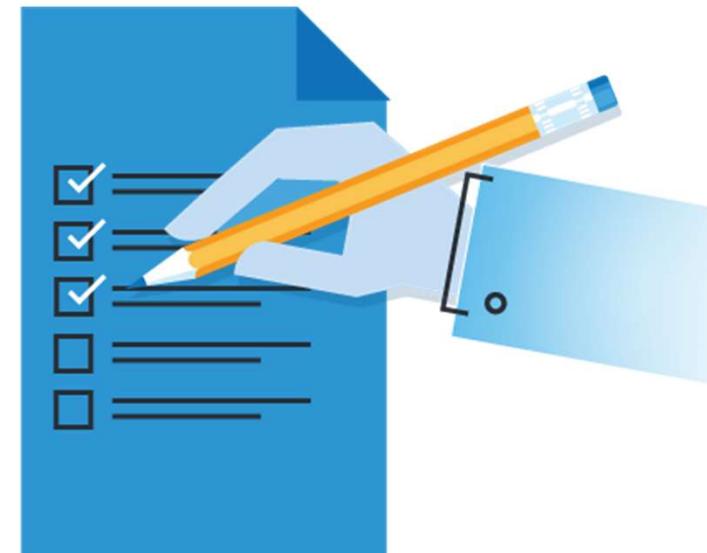
Delays the execution of the next TestStepValue by waiting for a specific property or value; the wait duration is dynamic

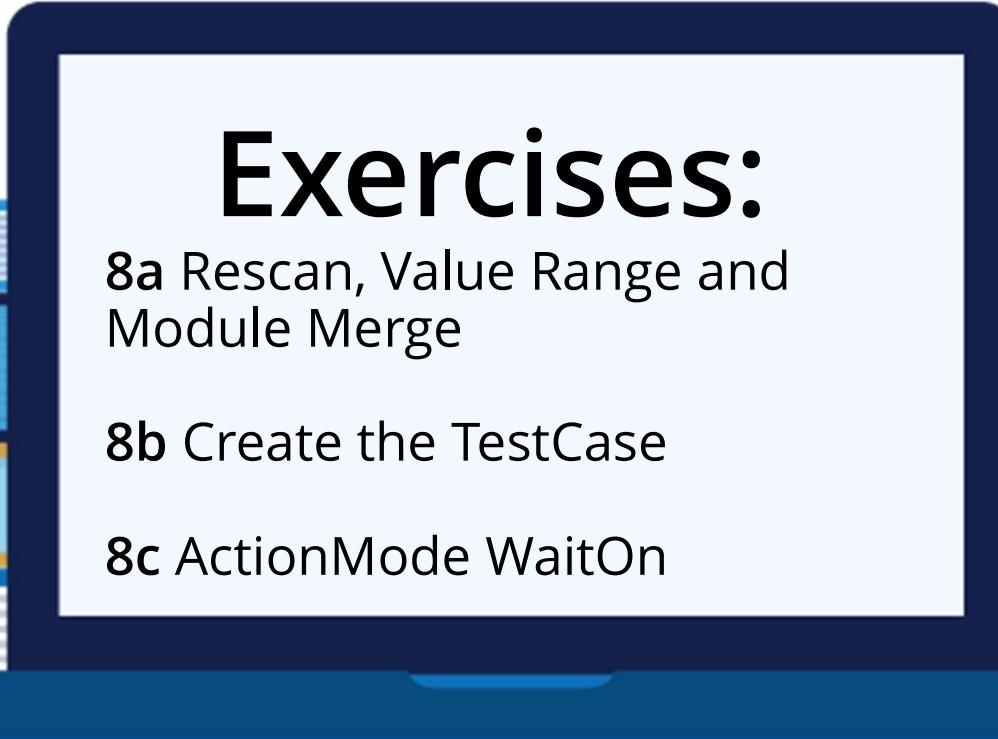
The maximum duration of WaitOn can be changed here:

Settings >> TBox >> Synchronization >> Synchronization Timeout during WaitOn

How to Use ActionMode WaitOn

1. Enter a Property (e.g. InnerText) as the Value of a TestStepAttribute
2. Enter the desired value (e.g. True or The coupon code was applied)
3. Set ActionMode to WaitOn





Exercises:

8a Rescan, Value Range and Module Merge

8b Create the TestCase

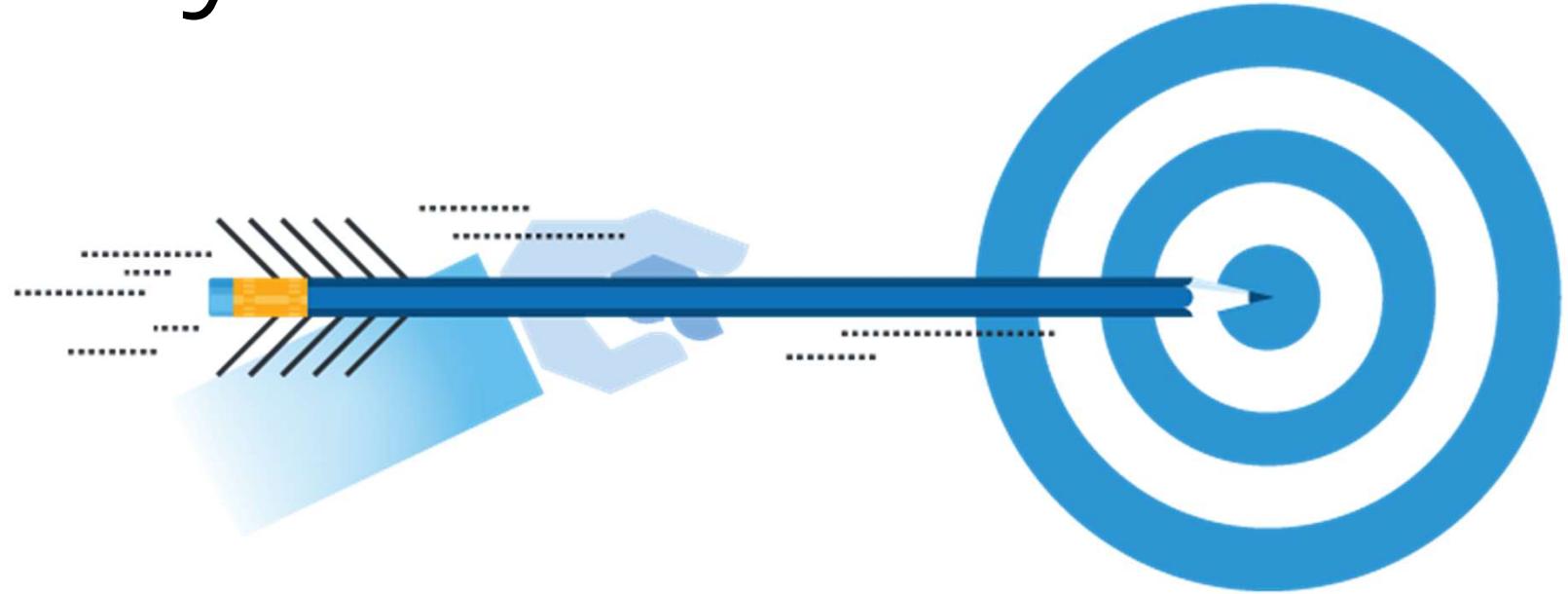
8c ActionMode WaitOn

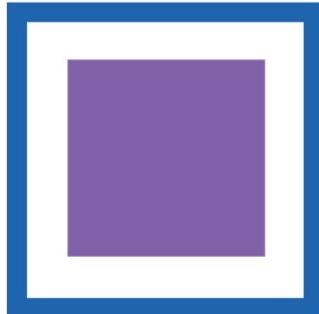


LESSON 09

Self-Defined Test Configuration Parameters

Key Points





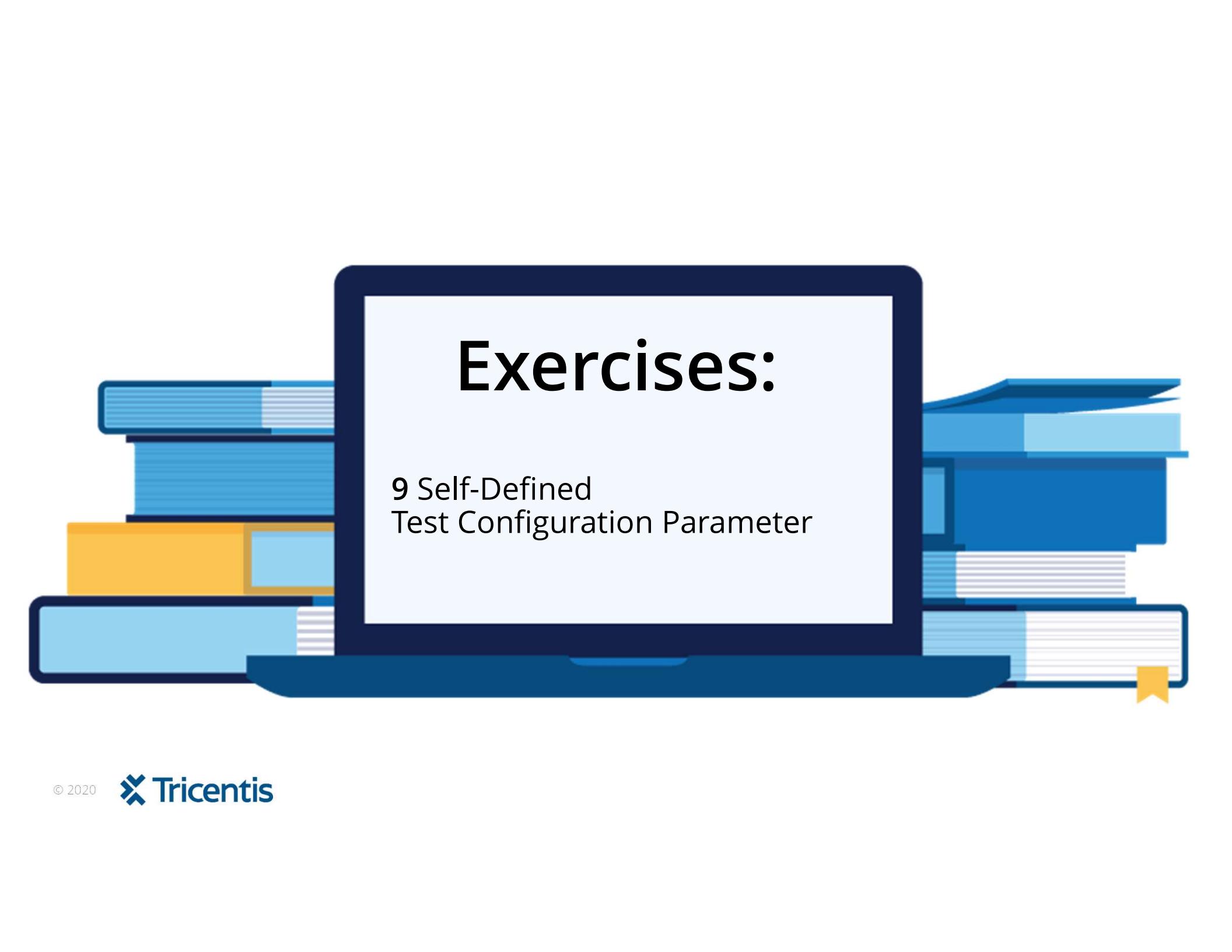
Self-Defined TCP

Centrally sets values to be used within test cases; it is maintained in the central location rather than in every occurrence

How to Use a Self-Defined Test Configuration Parameter

1. Create the Parameter in the Test Configuration tab
2. Enter its name and value
3. Use {CP[ParameterName]} to apply the value





Exercises:

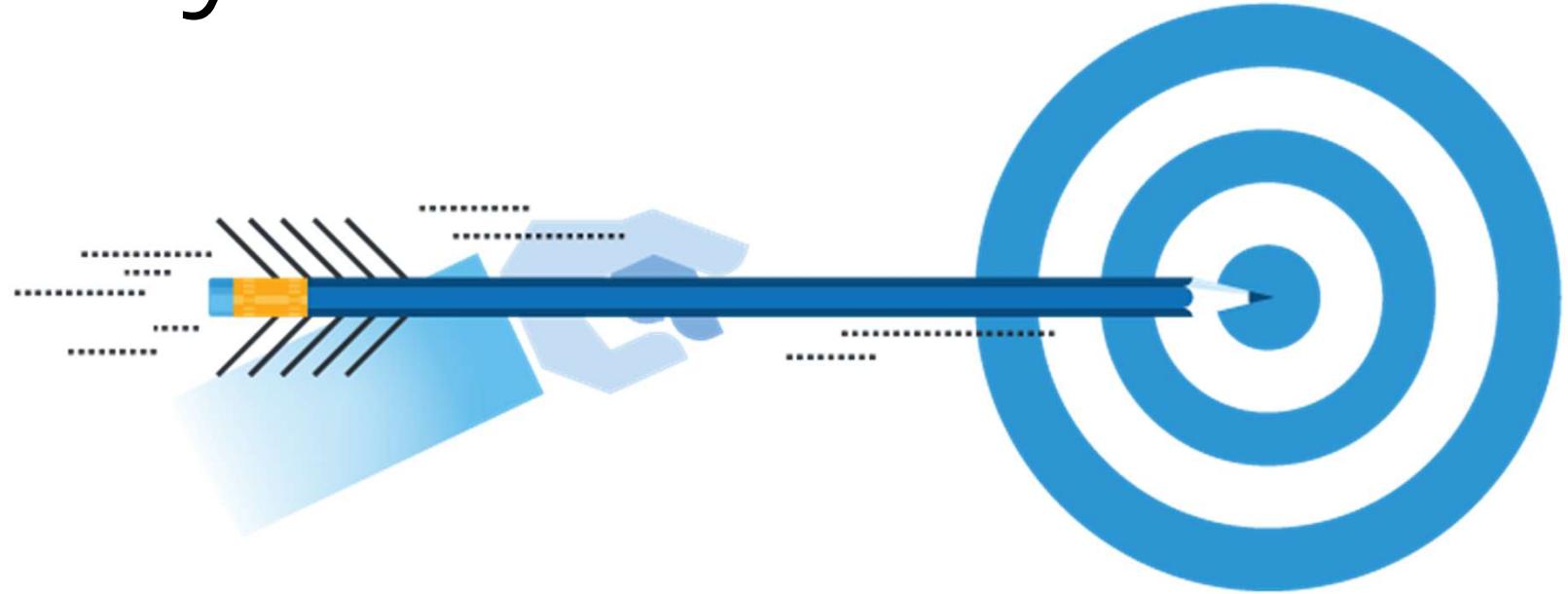
9 Self-Defined
Test Configuration Parameter

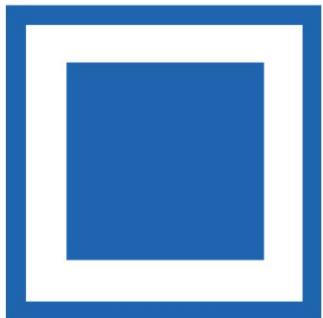


LESSON 10

Business Parameters

Key Points



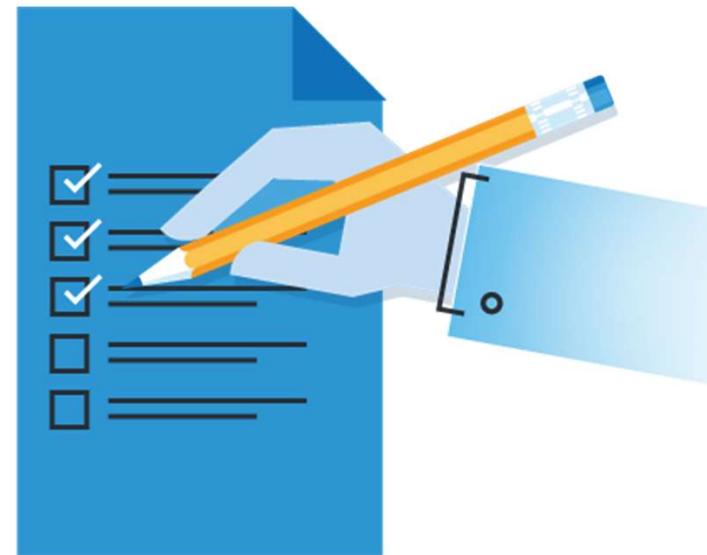


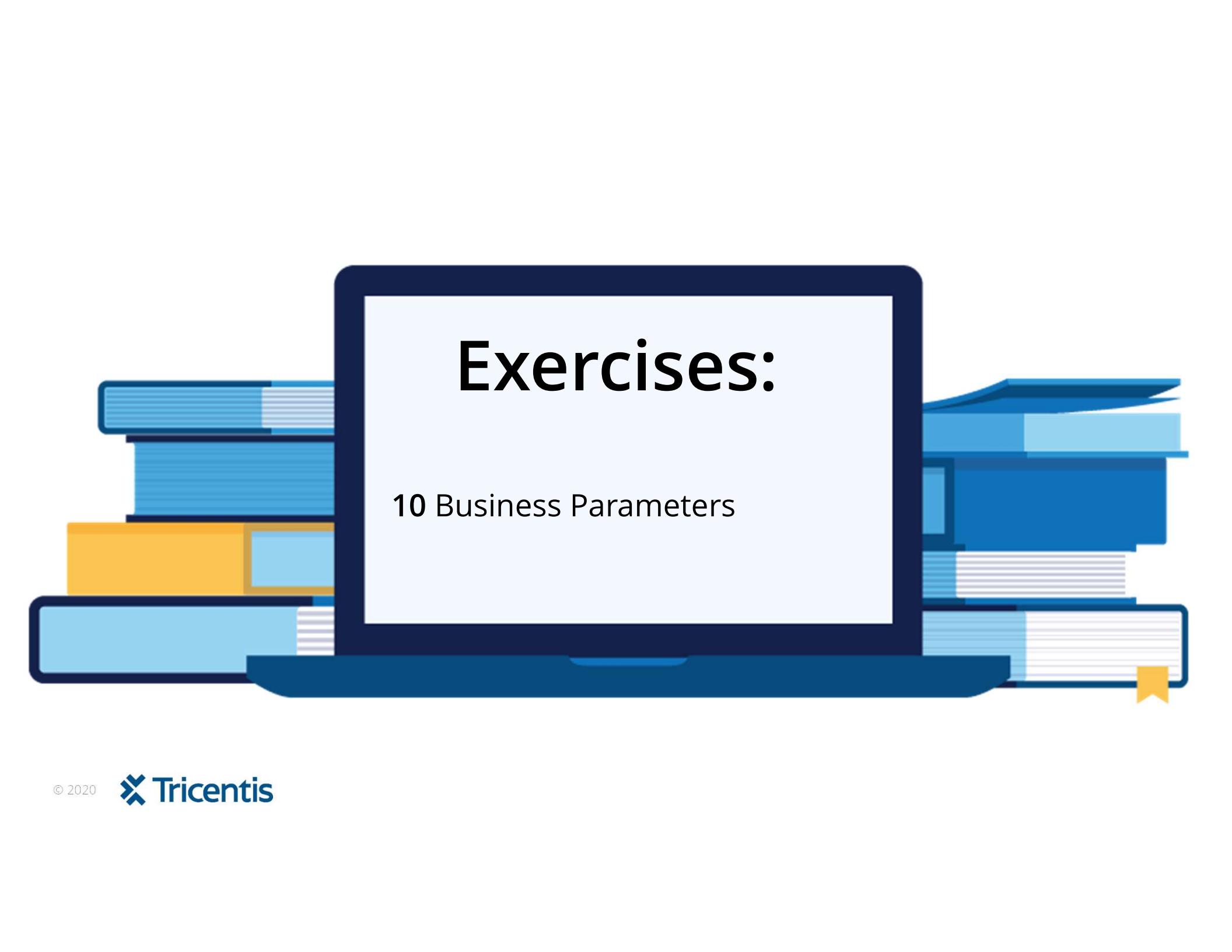
Business Parameter

Allow the use of Reusable TestStepBlocks even when the TestStep contains values that need to be changed in different TestCases

How to Use a Business Parameter

1. Create Business Parameters on the Reusable TestStepBlock itself
2. Name each Parameter
3. Create a Reference to the Reusable TestStepBlock within a TestCase
4. Enter Values for each Parameter in each usage of the TestStepBlock





Exercises:

10 Business Parameters



LESSON 11

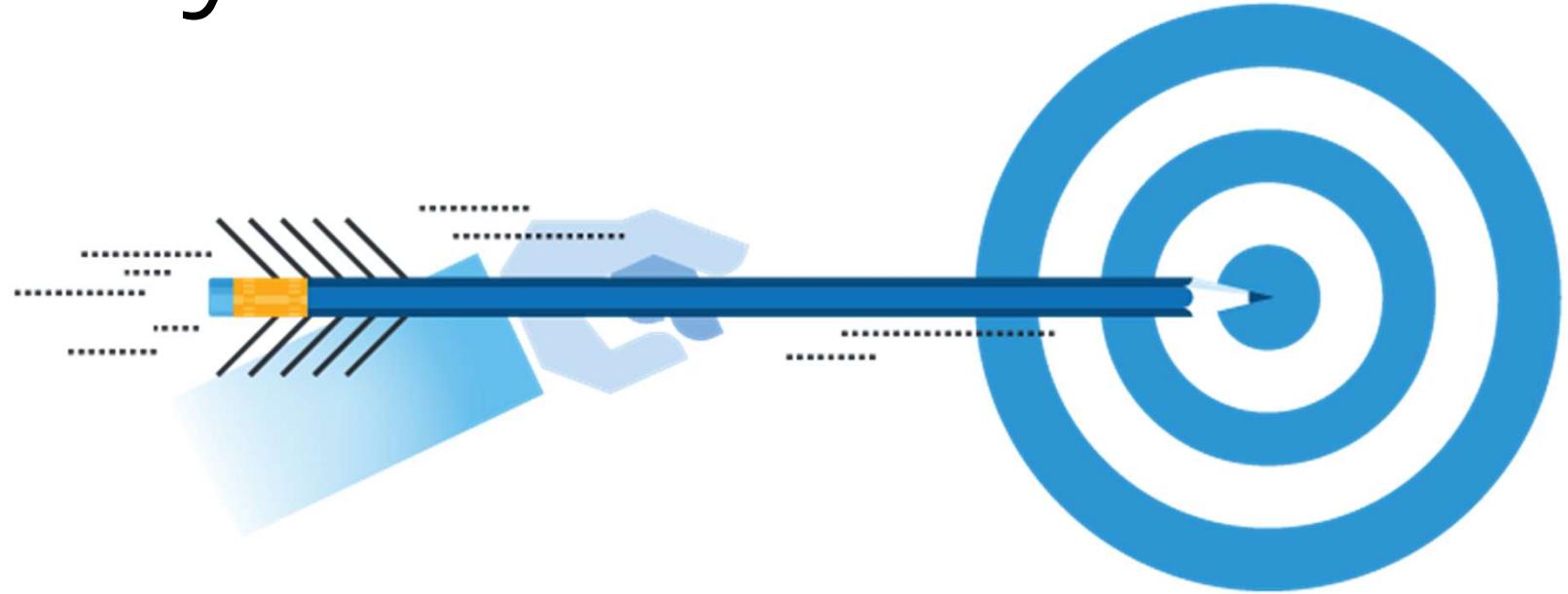
Parent Control, Dynamic ID, and
Dynamic Comparison

Dynamic Comparison Example

Syntax

```
InnerText == Order number: {XB[OrderNumber]}
```

Key Points



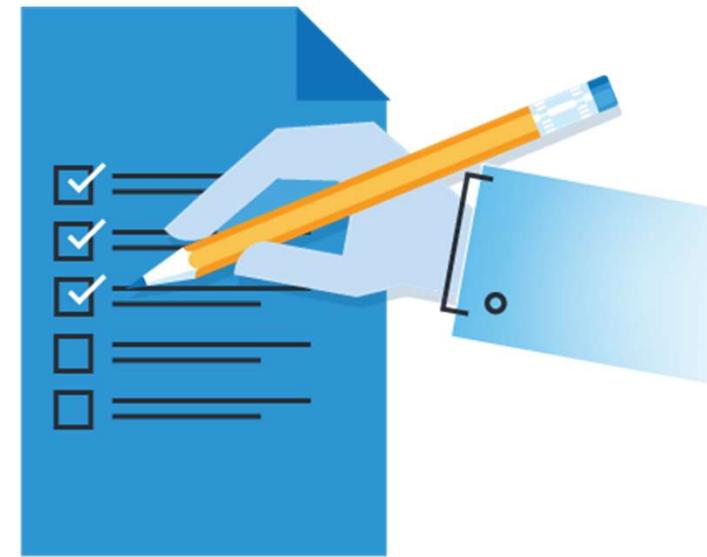
How to Use Dynamic Comparison

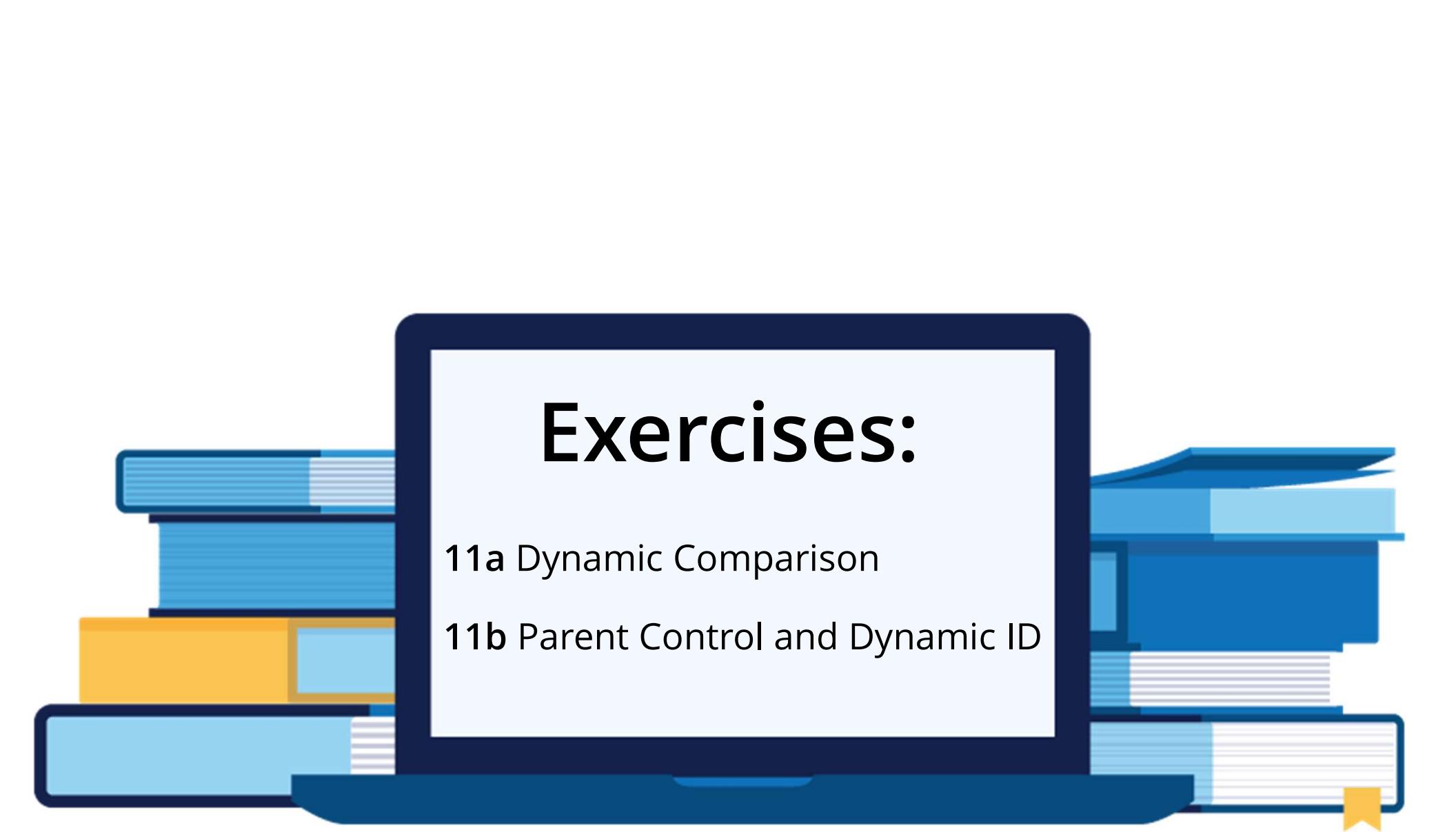
1. Select a TestStepValue and enter the string you want to verify
2. Replace the dynamic portion of the string using {XB[Buffername]}
3. Set the ActionMode to Verify



How to Identify by Parent

1. Select the control to identify in XScan
2. Locate and select its parent control
3. Ensure that the parent control is uniquely identifiable
4. Save





Exercises:

11a Dynamic Comparison

11b Parent Control and Dynamic ID



LESSON 12

ResultCount and Repetition

ExplicitName

Is a configuration parameter which can be added to a Module which allows a change in the TestStepValue name which reflects a technical identification.

Index

Numbers objects that have the same properties, or do not have a unique identifier, in the order they appear on the page, using #1, #2, #3 and so on, ExplicitName allows Tricentis Tosca to steer these objects using the index, taking into account any dynamic changes.

ResultCount

Is a property that is the result of a counting process which can be used for all controls.

RowCount and ColumnCount can also be used for tables

Tbox Set Buffer

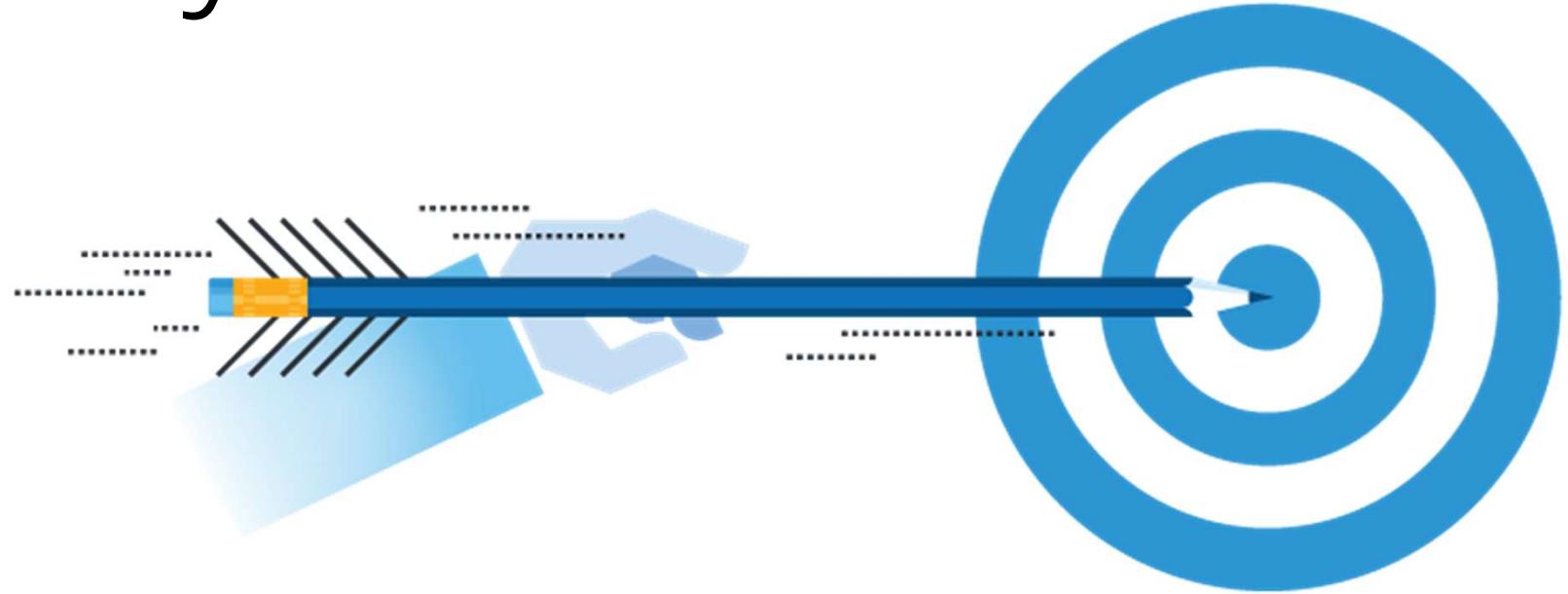
Is a standard Module which allows you
to set a value to a Buffer manually

Repetition

Is a parameter which instructs Tosca to repeat the steps within the specified level a specified number of times.

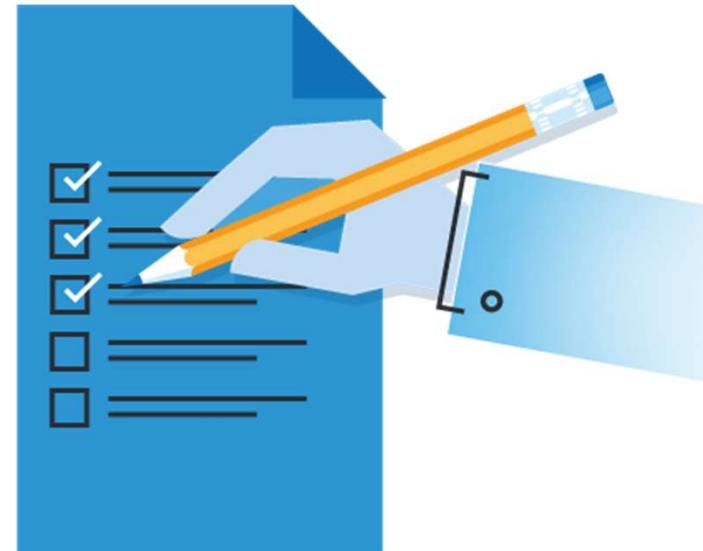
We can specify repetition on the TestStep Folder level only, which tells Tricentis Tosca to repeat the steps within the folder

Key Points



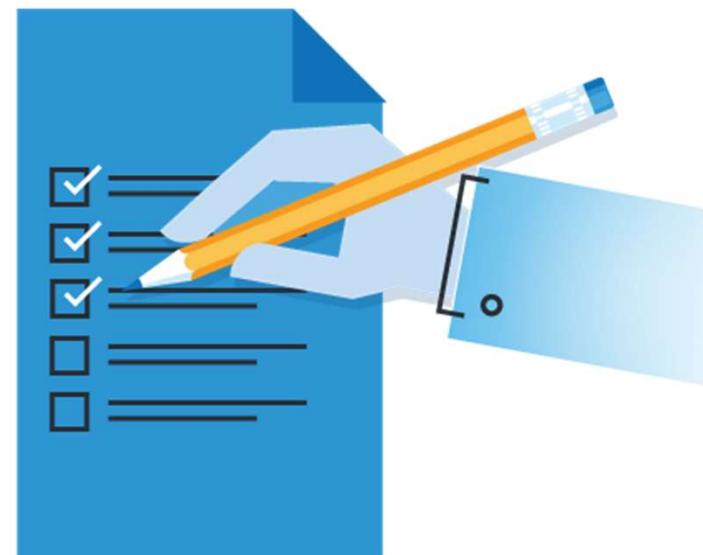
How to Use ResultCount

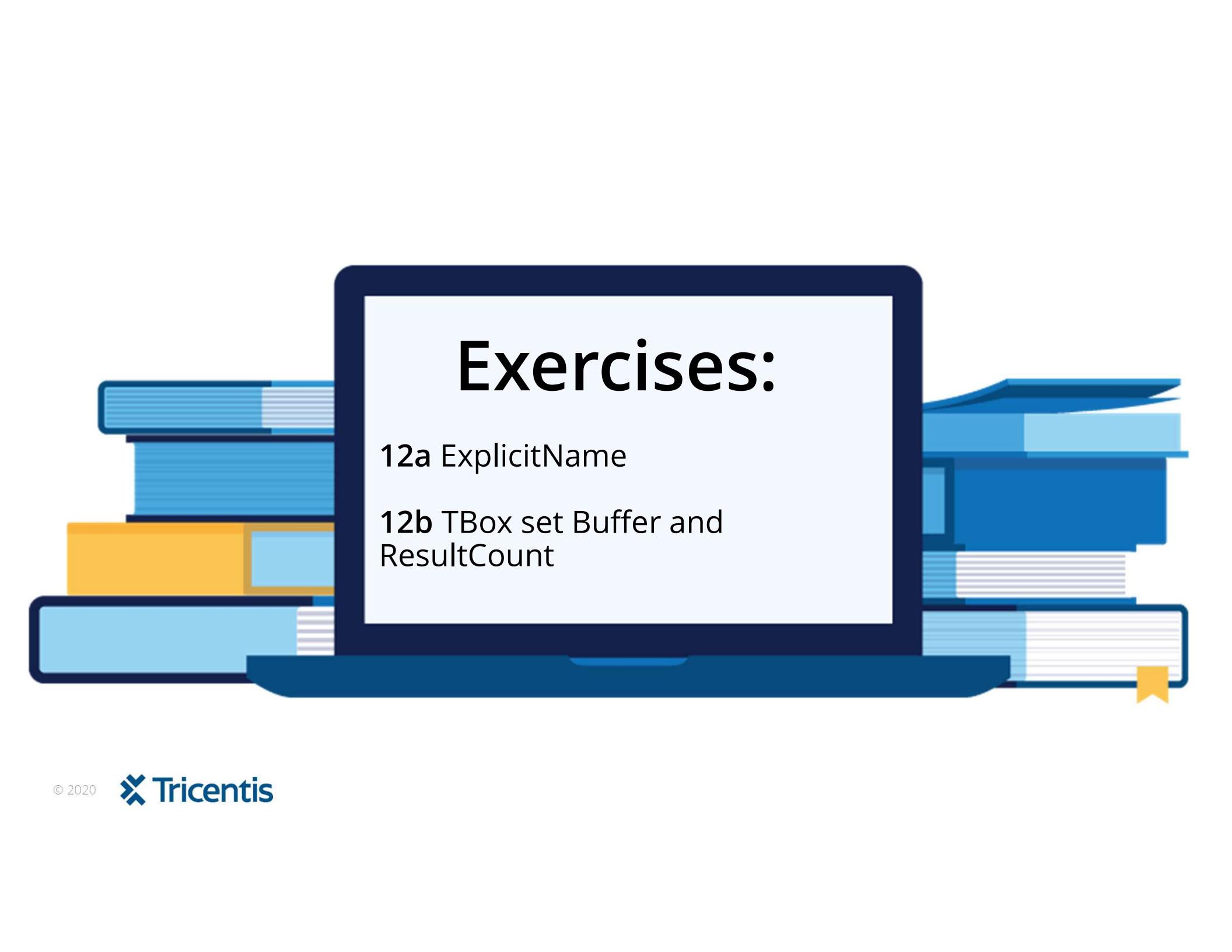
1. Navigate to the TestStepValue
2. Set applicable ActionMode
3. Click the blue drop down arrow in the value cell
4. Enter ResultCount in the left textbox and select an operator and value



How to Use ExplicitName

1. Add Configuration Parameter
“ExplicitName” to the Module Attribute
2. Set the Value to True
3. Rename corresponding TestStepValue if applicable

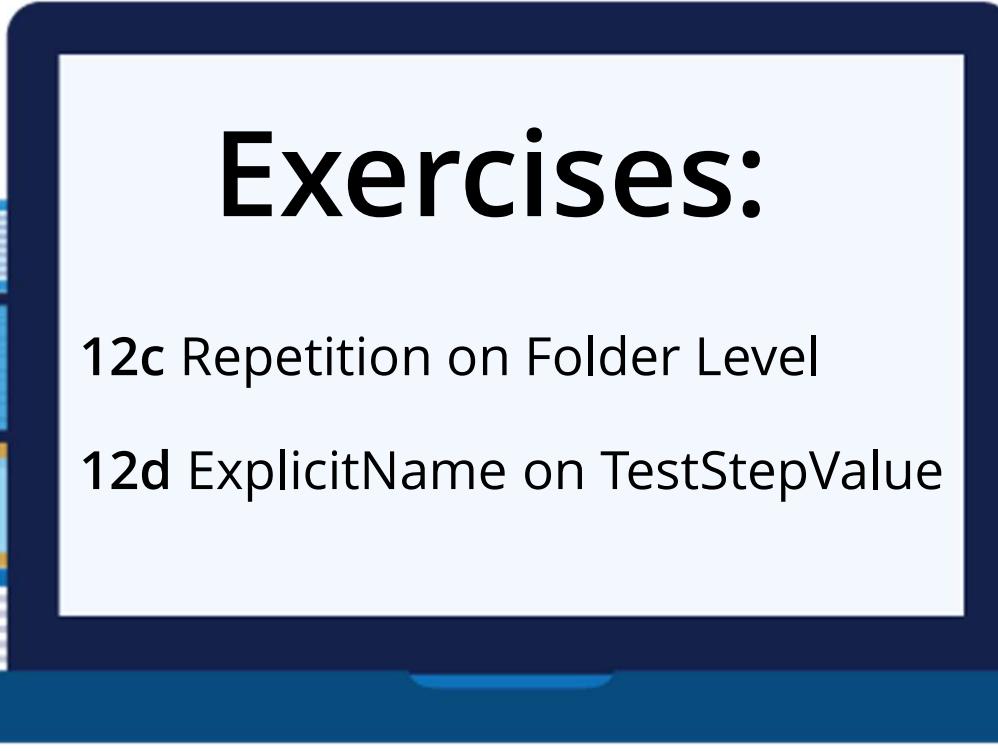




Exercises:

12a ExplicitName

12b TBox set Buffer and
ResultCount



Exercises:

12c Repetition on Folder Level

12d ExplicitName on TestStepValue

Recap

Quiz

Once all work on a TestCase is done and ready for review, to which Status should the TestCase WorkState be set?

- Ready
- Done
- IN_WORK
- PLANNED
- COMPLETED

Quiz

Once all work on a TestCase is done and ready for review, to which Status should the TestCase WorkState be set?

- Ready
- Done
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- PLANNED
- COMPLETED

Quiz

You can use a TCP to add values for identifiers of various test environments. This statement is...

- True
- False

Quiz

You can use a TCP to add values for identifiers of various test environments. This statement is...

True

False

Quiz

What options are available if you want to run a test in the ScratchBook? (2 correct answers)

- You can run your objects by selecting them and pressing F6
- You can add and arrange objects in the ScratchBook and then run them
- You need to compile the objects and then run the compiled objects
- The objects will open the necessary locations you need for testing on the SUT, then you fill in the data

Quiz

What options are available if you want to run a test in the ScratchBook? (2 correct answers)

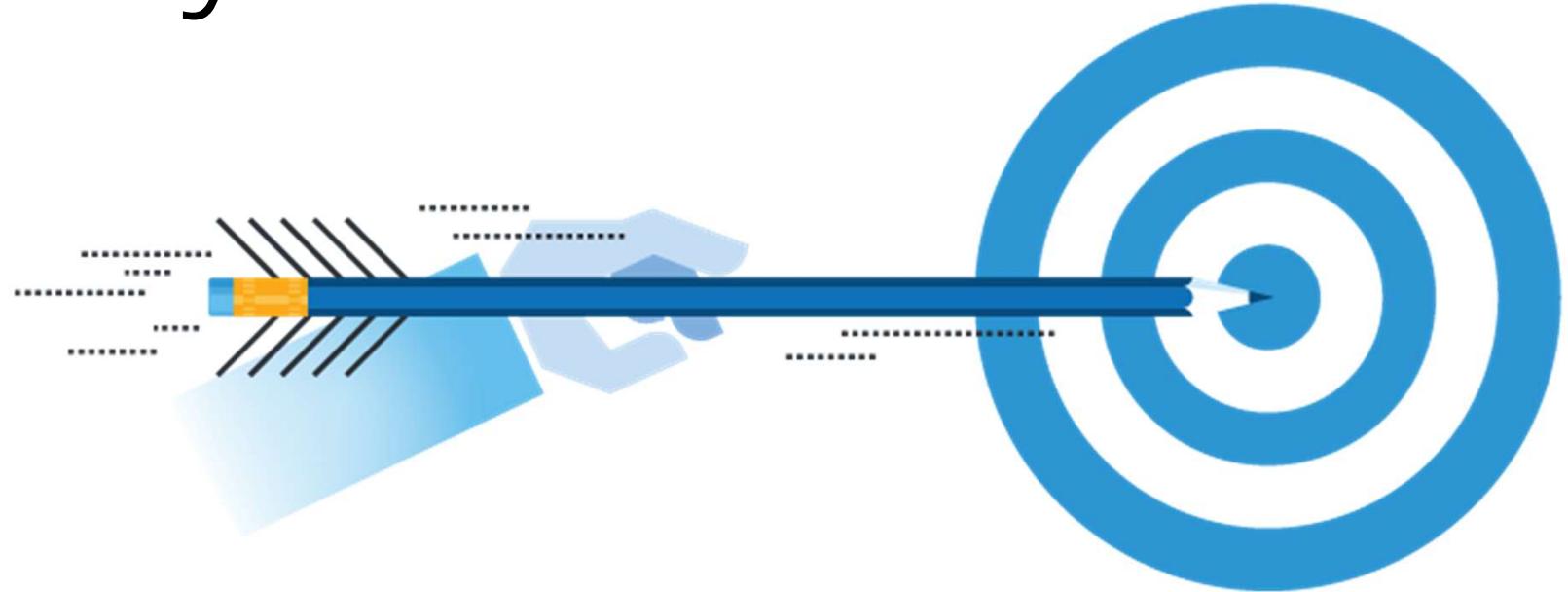
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LESSON 13

Requirements

Key Points





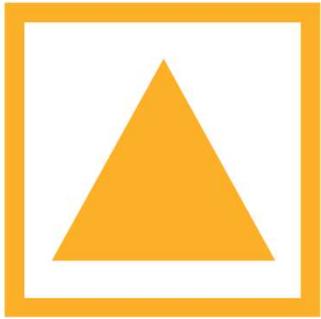
Requirement Folder

Contains Requirement elements, to organize the section



Requirement Set

Root element of the Requirements



Requirement

Represents functional or non-functional demands or expectations of the SUT

The Pareto Principle

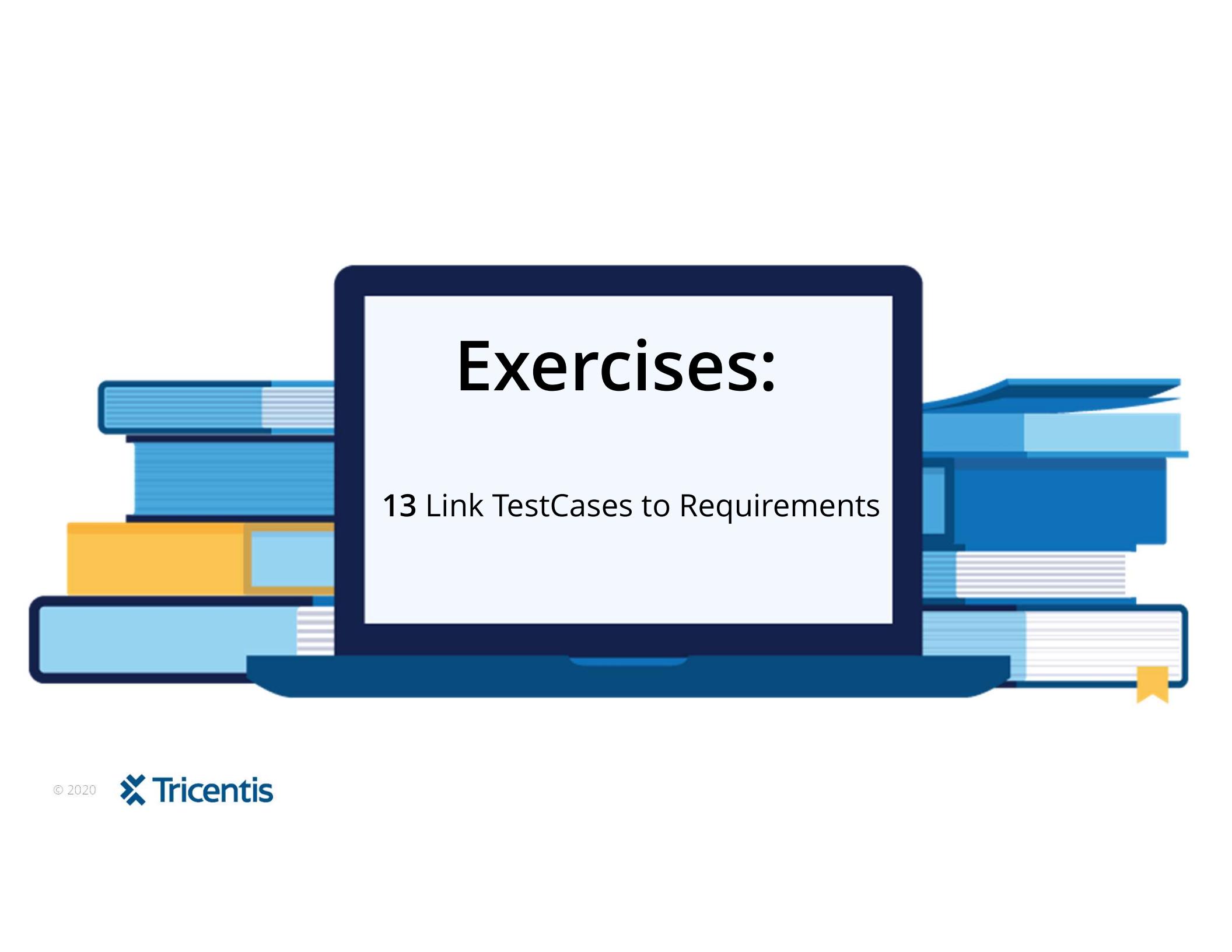
80% of our risk come from 20% of our application.

$$2^D \times 2^F = W$$

How to Link TestCases to Requirements

1. Drag and drop the TestCase to the relevant Requirement





Exercises:

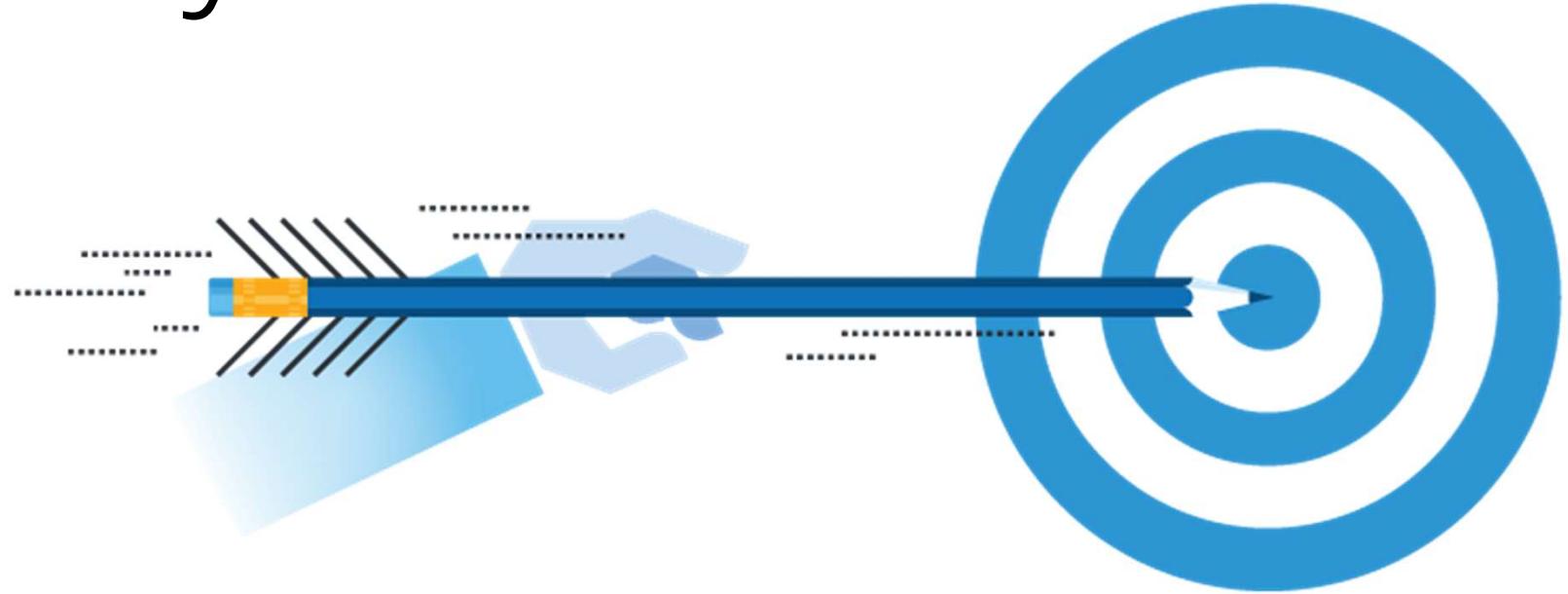
13 Link TestCases to Requirements



LESSON 14

ExecutionLists

Key Points





ExecutionList Folder

Folder which contains ExecutionLists



ExecutionList

Element containing ExecutionEntries,
which are linked TestCases



ExecutionEntry Folder

Folder which can be used to organize ExecutionEntries, located within an ExecutionList



ExecutionEntry

Element representing a linked TestCase; any changes must be made in the TestCase, not the ExecutionEntry



Run

Which Automates the TestCase in the ExecutionLists



Run from here

Which will start running from the selected ExecutionEntry and continues until the end of the ExecutionList

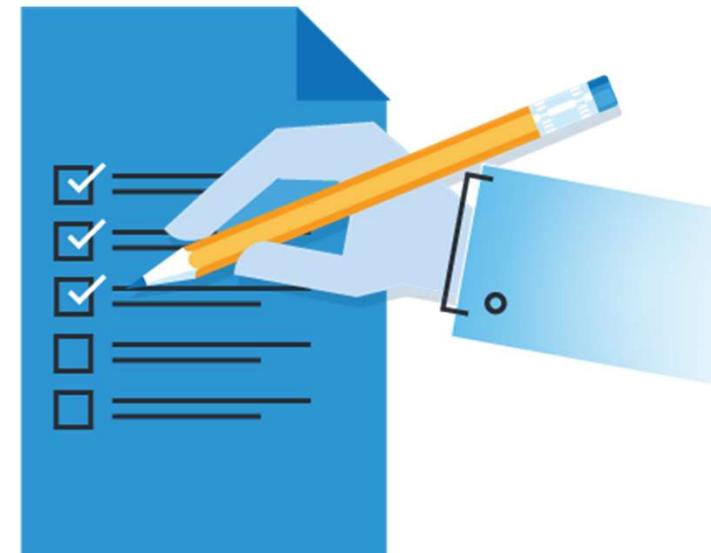
 Ctrl + Shift + M

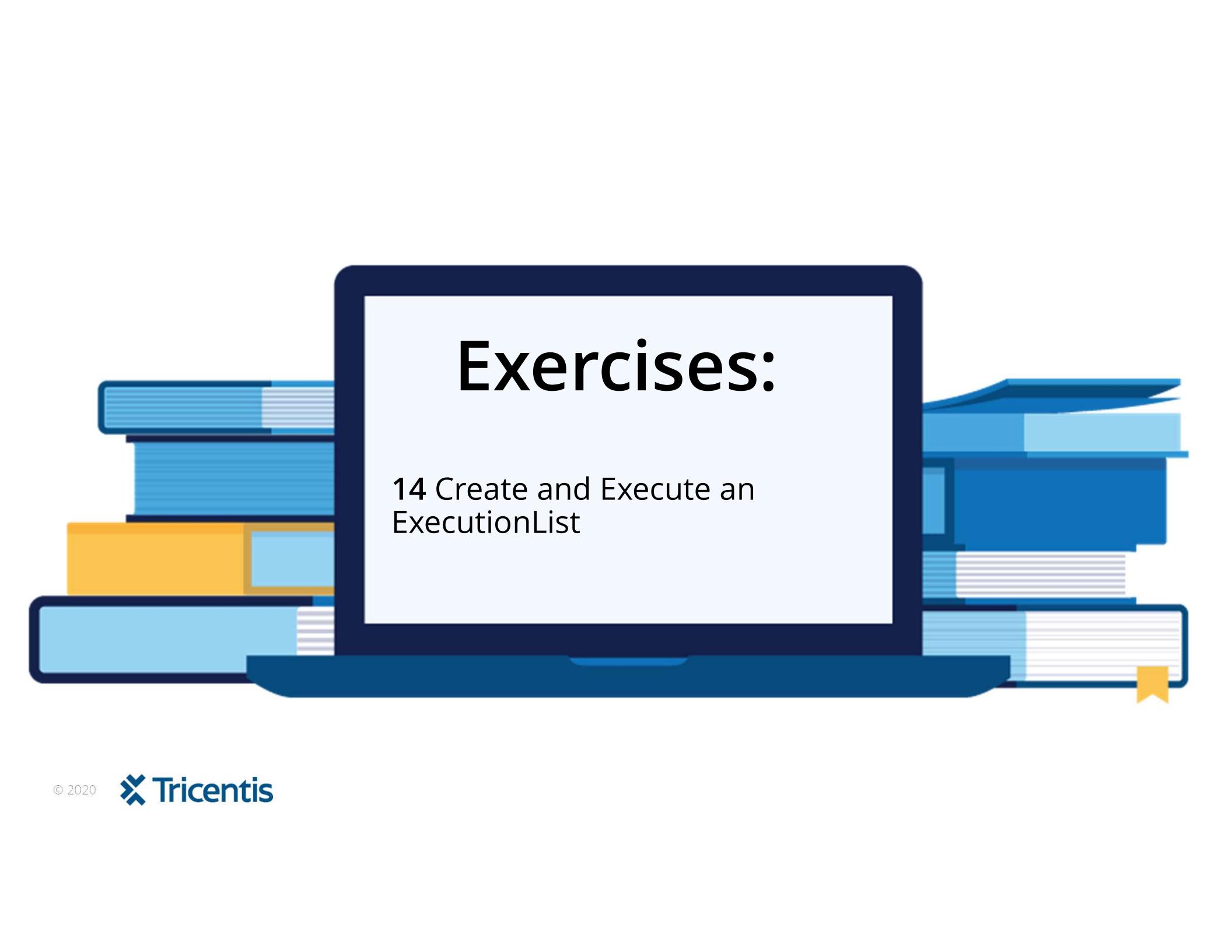
Run as a Manual TestCase

Which would be only used for manual tests

How to Execute TestCases

1. Create an ExecutionList
2. Link TestCase or TestCase Folder by drag and drop
3. Link the ExecutionList to the Requirement Set
4. Run the ExecutionList
5. View results in the ActualLog





Exercises:

14 Create and Execute an
ExecutionList

Quiz

How often can you use a TestCase in the same ExecutionList?

- Once
- Unlimited
- Twice
- The number is set in the TestCase properties tab

Quiz

How often can you use a TestCase in the same ExecutionList?

- Once
- Unlimited
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Quiz

How do we define the final weight of a Requirement?

- It is expressed in integers ranging from 1 to 10
- It is expressed in integers ranging from 1 to 5
- It is calculated using an exponential function that takes into consideration frequency class and damage class
- It is pre-defined based on the requirement complexity

Quiz

How do we define the final weight of a Requirement?

- It is expressed in integers ranging from 1 to 10
- It is expressed in integers ranging from 1 to 5
- It is calculated using an exponential function that takes into consideration frequency class and damage class
- It is pre-defined based on the requirement complexity

Quiz

To which level in the Requirement structure are TestCases linked?

- Requirement
- RequirementSet
- Requirement Folder
- TestCases are not linked to the Requirement section

Quiz

To which level in the Requirement structure are TestCases linked?

- Requirement
- RequirementSet
- Requirement Folder
- TestCases are not linked to the Requirement section

Quiz

In which section of Tosca are libraries used?

- TestCase
- Module
- TestCaseDesign
- Requirements

Quiz

In which section of Tosca are libraries used?

- TestCase
- Module
- TestCaseDesign
- Requirements

Quiz

What is the correct syntax for using a Test Configuration Parameter in a TestStep?

- CP[NameOfTheTCP]
- [CP{NameOfTheTCP}]
- {CP[NameOfTheTCP]}
- {TCP[NameOfTheTCP]}

Quiz

What is the correct syntax for using a Test Configuration Parameter in a TestStep?

- CP[NameOfTheTCP]
- [CP{NameOfTheTCP}]
- {CP[NameOfTheTCP]}
- {TCP[NameOfTheTCP]}

Quiz

What is the correct expression, if you want Tosca to enter a date that is: the last day of the month, 3 years ago from the testing date, with 4 digits for years and 3 words abbreviation for month?

- {DATE[31] 08.2020][-3y][MMyyyy]}
- {MONTHLAST[][-3y][MMMyyyy]}
- {MONTHFIRST[][-3y-1d][mmmyyyy]}
- {MONTHLAST[][-3y][MONTHyear]}

Quiz

What is the correct expression, if you want Tosca to enter a date that is: the last day of the month, 3 years ago from the testing date, with 4 digits for years and 3 words abbreviation for month?

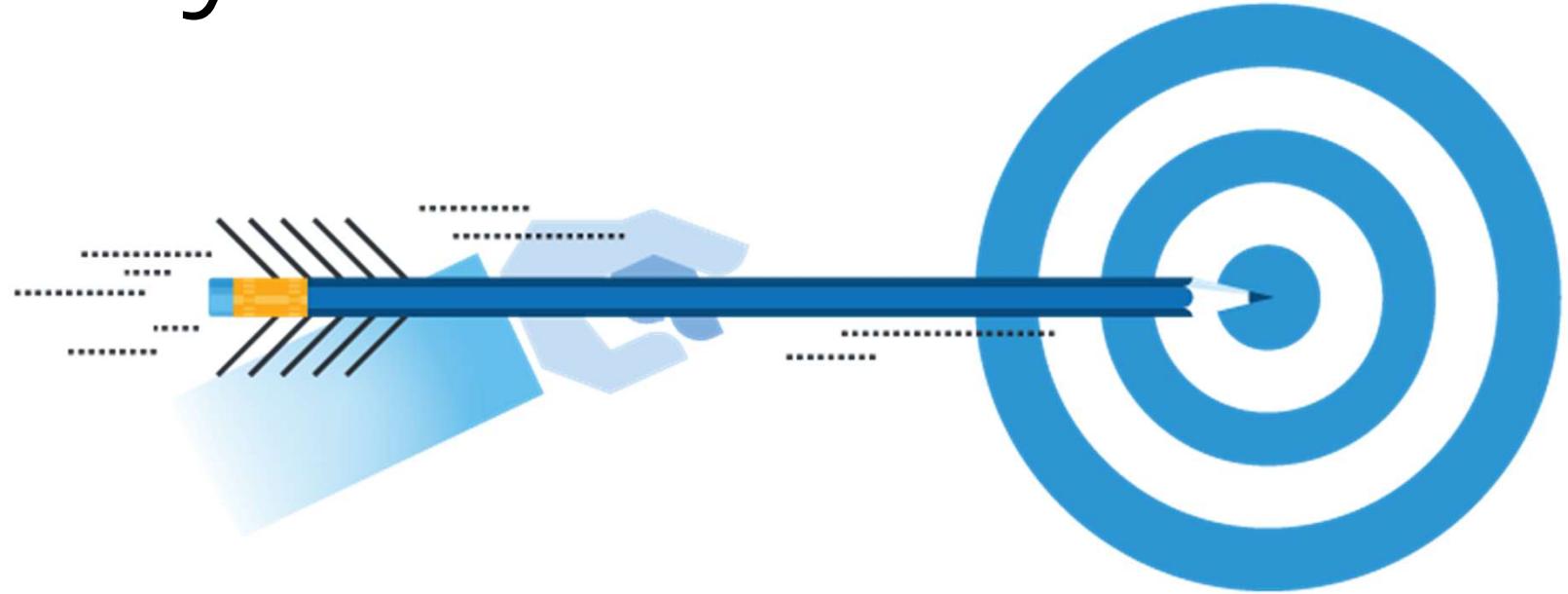
- {DATE[31] 08.2020][-3y][MMyyyy]}
- {MONTHLAST[][-3y][MMMyyyy]}
- {MONTHFIRST[][-3y-1d][mmmyyyy]}
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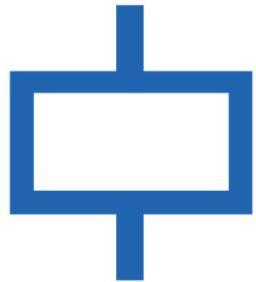


LESSON 15

Loops and Conditions

Key Points





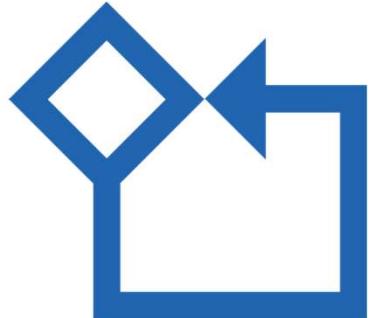
Loop

Used for running TestSteps repeatedly;
Three types are WHILE, IF, and DO
statements



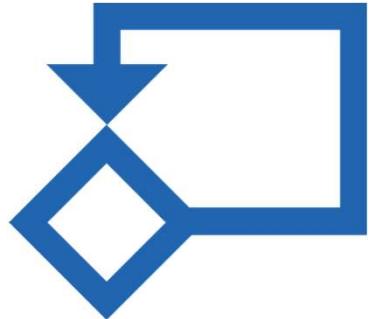
Condition

Must be met so that the next step may
be taken



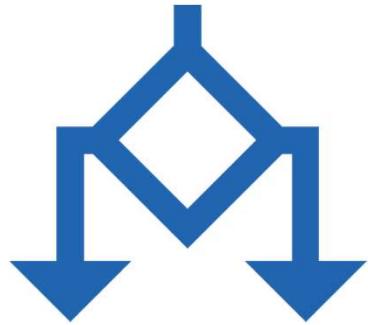
WHILE Statement

Action to execute a TestStep repeatedly
until a condition is no longer met (or retry limit is reached); condition must be met to run



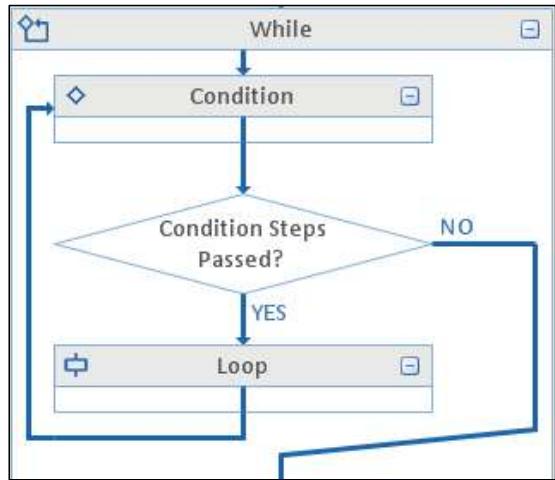
DO Statement

Similar to a WHILE Statement, but the TestStep is run once before checking whether the condition is met



IF Statement

Action to execute a TestStep once *if* a particular condition is met



Control Flow Diagram

Visual representation of a TestCase; a tab in the working pane



Exercises:

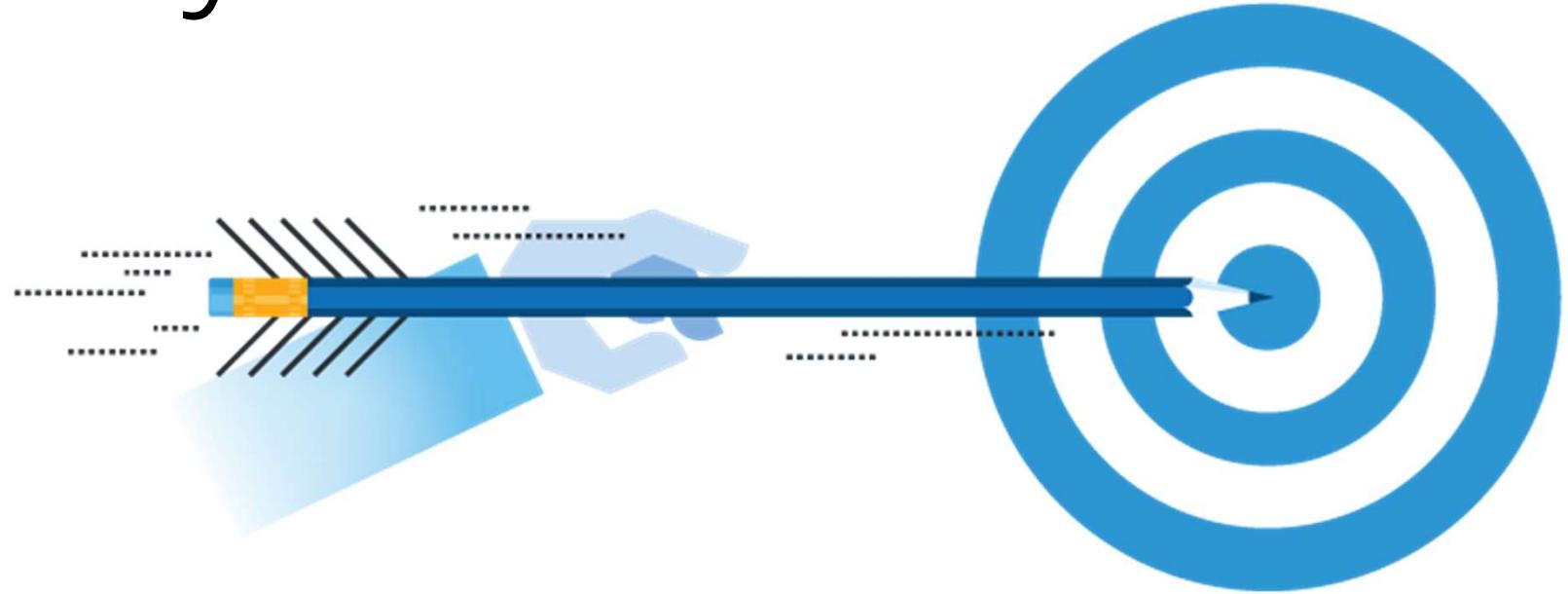
15 WHILE Statement



LESSON 16

Recovery Scenarios

Key Points





Recovery Scenario Collection

Folder containing recovery scenarios;
can be located on each level in the
hierarchy



Recovery Scenario

One or more TestSteps used only if an
error occurs that would interfere with
regular test execution

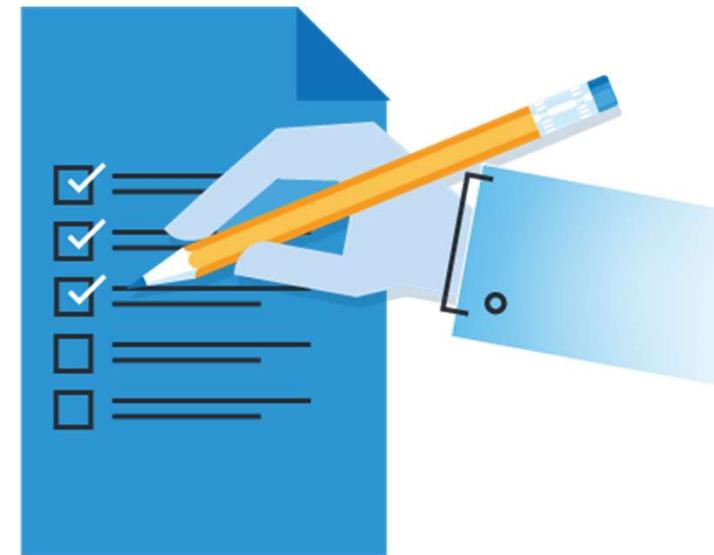


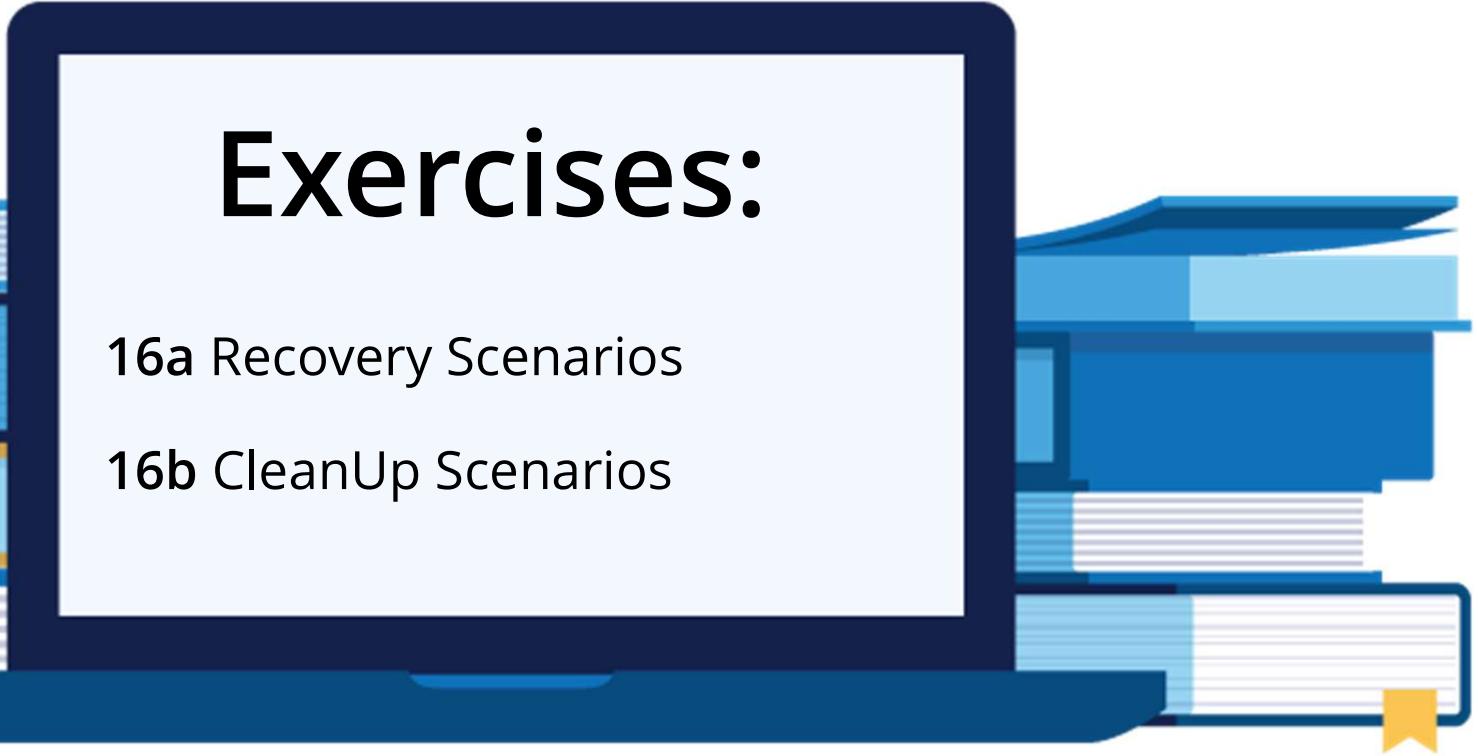
CleanUp Scenario

One or more TestSteps used only if no appropriate Recovery scenario is successful

How to Define a Recovery Scenario

1. Create Recovery Scenario Collection
2. Add TestStep to use if an error occurs
3. Add CleanUp Scenario if necessary





Exercises:

16a Recovery Scenarios

16b CleanUp Scenarios



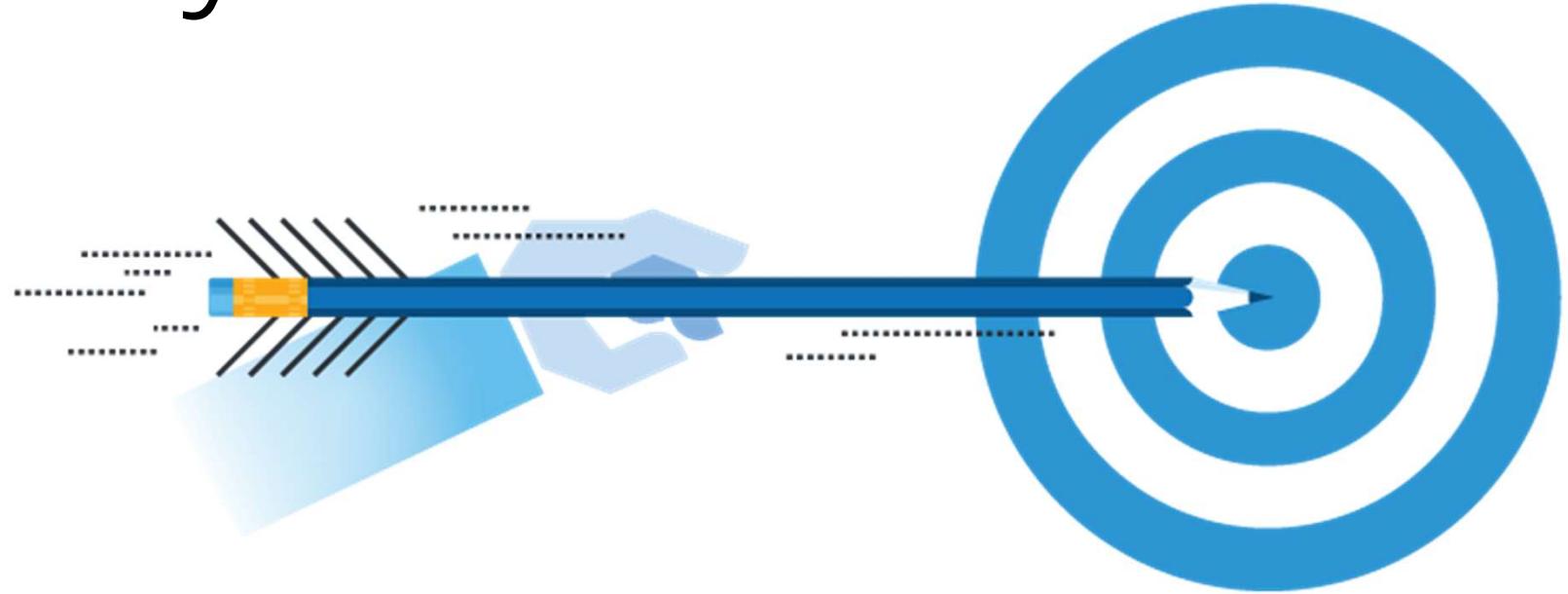
LESSON 17

Constraint and FireEvent

Constraint

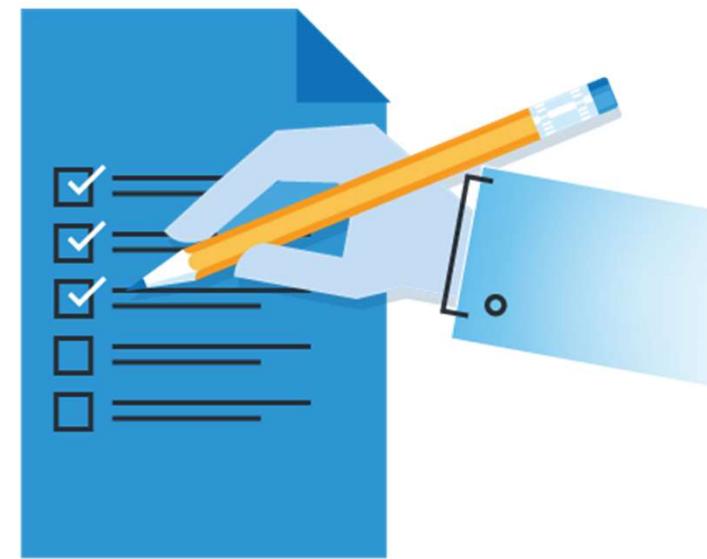
An actionmode that allows us to find or identify a row by searching for specific values in them

Key Points



How to Use ActionMode Constraint

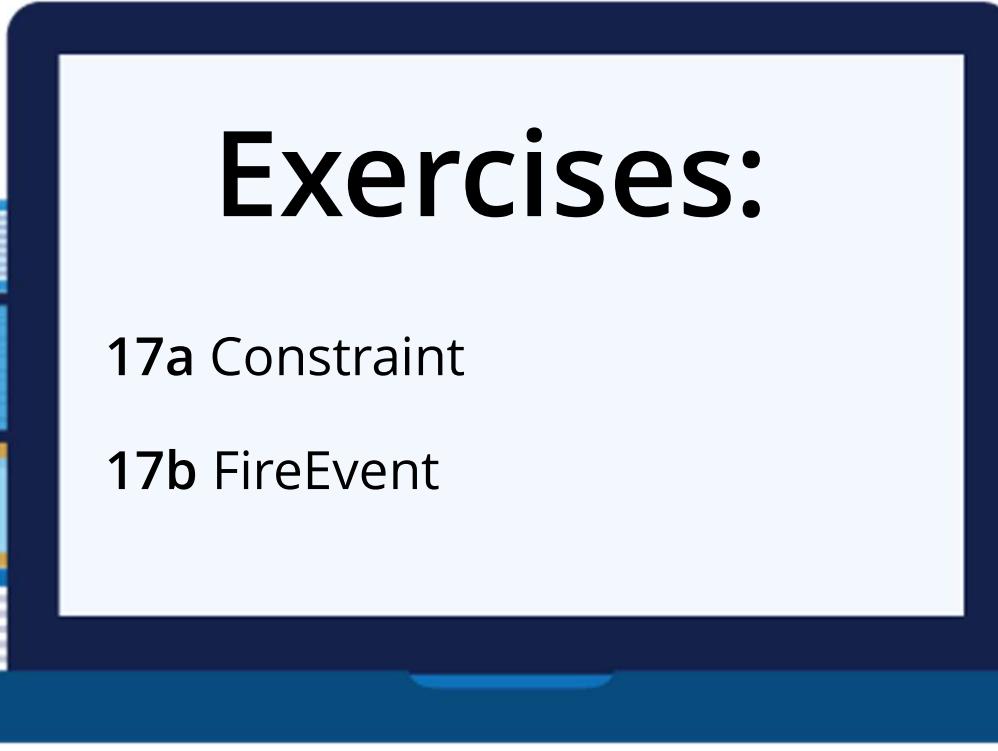
1. Steer a TestStepValue which by now exists multiple times
2. Set ActionMode to Constraint; select Value to search for all subsequent TestStepValues necessary to make the selection unique



How to Use FireEvent

1. Add the Steering parameter “FireEvent” to the Module Attribute
2. Add the desired FireEvent as the Value





Exercises:

17a Constraint

17b FireEvent

Quiz

When using the command {XB[Value]}, what is the meaning of the value inside the []?

- The Innertext of the Control
- The TestStep name
- The name of the Buffer
- The value to be verified

Quiz

When using the command {XB[Value]}, what is the meaning of the value inside the []?

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- The value to be verified

Quiz

How do you define repetitions for TestSteps in a TestCase?

- Change the repetition setting in Project >> Settings >> Tbox
- Change the number of repetitions in the properties of a TestStepFolder within the TestCase
- Set the repetition in the TestCase Properties
- Set the repetition for the ExecutionEntry in the ExecutionList

Quiz

How do you define repetitions for TestSteps in a TestCase?

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Quiz

What does a red button bar next to an object mean while working in Multi-user environments? (2 correct answers)

- That object cannot be run in an Execution List
- If it's a module, you may still add it to your TestCases
- You cannot make any changes to that object
- It means no one is working on that object

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Quiz

What is the difference between a “WHILE” and a “DO” statement?

- In a “DO” statement, the loop is executed at least once
- A “WHILE” statement contains a loop, the “DO” does not
- The “DO” statement is only a loop
- A “WHILE” statement must only be used in a Recovery Scenario

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Quiz

What's the best definition of the ActionMode Constraint?

- It's a type of ActionMode that allows you to interrupt the execution of the TestCase until the indicated property has the specified value
- It's a type of ActionMode used for simple lists such as lists without sub-lists, or for a general verification of lists
- It's a type of ActionMode used to identify one specific item in a list of similar items
- It's a type of ActionMode that allows you to transfer values to the test object

Quiz

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