# Test Case Creation and Execution for Exploratory Testing in qTest (Quick Take)

This Quick Take provides an overview of how Market Participants can use qTest to record the steps taken and to log the results of the Exploratory tests they perform against the IESO applications. qTest is the IESO's current test case management tool, which will be used during in all phases of Market Participant Testing under the Market Renewal Program (MRP). These test phases include Connectivity Testing, Market Trials, and End-to-End Testing.

## What is Exploratory Testing?

Exploratory Testing is a flexible and dynamic testing approach that allows users to explore the software application, identify issues, and learn more about IESO application's behaviour and functionality.

In addition to accessing and updating the status of the prescribed test cases that have been created by the IESO, Market Participants can also use qTest to create their own exploratory test cases and report issues they encounter to the IESO's QA team. qTest is intended to only document the results of testing that is performed on the IESO applications, and it must not be used to record the testing of non-IESO systems. Market Participants are responsible for executing and saving the test results of their own internal systems and processes outside the IESO's test case management tool.

## How to Create a Test Case

The *Test Design Module* in qTest enables users to create, move, edit and view test cases on their own.

Step 1: Navigate to IESO Gateway: <u>https://gateway.ieso.ca/</u>

Step 2: Enter your username and password.



	Conservation Proving Labor
	Sign In
ι	Jsername
	userasamplea.mp@gmail.com
F	Password
	•••••
[	Remember me
	Sign In
1	Need help signing in?

**Step 3:** Enter the answer to the security question and click on the **Verify** button.

Answer	Security Q	uestion
Do not challenge me on this device again           Verify		
Verify	What is the name of your fi	rst stuffed animal?
	What is the name of your fi Answer Do not challenge me on t	rst stuffed animal?

**Step 4:** Click on the **qTest** tile. The qTest application should open to its main home screen, ready for use.



**Step 5:** Select your organization's project name. All test project folders are labelled using the following format: "MP\_<*Market Participant's name>*". For example, if the Market Participant's name is Blue Mountain Aero Electric, then the project folder will be named as "MP\_Blue Mountain Aero Electric".



**Step 6:** Click on the **Test Design** tab from the top menu, and then click on the project "MP\_*Market Participant's name*" on the left panel to expand the list. Select the relevant testing phase (i.e., "Market Trials") from the options below.

<b>qTest</b> Manager			0 9	5	
MP_Blue Mountain Aero Electric 🗸	Test Plan	Requirements	Test Design	Test Execution	Defects
MP_Blue Mountain Aero Electric MP_Blue Mountain Aero Electric Market Trials End to End Testing	Test Design MP_Blue	Mountain A	ero Electric	:	

**Step 7:** Test cases are saved under the blue subfolders that are labelled with the application or system that is being tested. These folders are located in a parent folder that identifies when the application was made available during Market Trials. For example, to view the test cases for the Market Information Management (MIM) system:

- i. Select the "Market Trials" folder.
- ii. Select the "Phase 1" folder.

iii. Select the" MIM" application folder to view the structured test cases (MIM).

The test cases in the application folders are grouped into subcategories. For example, the test cases in the "MIM" application folder are grouped into different market types (i.e., "DDD", "RTEM", "FOREBAY" etc.).



Each Application folder will have a subfolder named "Exploratory" to keep the record of all the exploratory test cases executed for that application.



**Step 8:** To log the results of exploratory testing, right-click on the "Exploratory" folder and select the "New test case." option.

<b>qTest</b> Manager					
MP_Blue Mountain Aero Electric 🚽	Test Plan	Requirements	Test Design	Test Execution	Defects
MP_Blue Mountain Aero Electric Market Trials Market Trials MiM DDD RTEM FOREBAY SCHEDULE Explorator EMI Mim Online IESO Mew Test Cas Copy Cut Paste Delete Data Query View Execution	Test Design MP_Blue Test Case	e Mountain A	ero Electric		

**Step 9:** The "New test case" window will be displayed.

Untitled			[	CREATE TEST RUN APPROVE SAVE	RELOAD
∽ Test Case Properties					
Status	Туре		Version		
New	<ul> <li>Manual</li> </ul>		0.1		*
Assigned To					
N/A					
Description					
Font Family - Font Sizes - Paragraph - E		• 8 • = • ::			
Priority					
Medium					

**Step 10:** Enter the following details:

- i. Title of the test case
- ii. A description of the test case
- iii. Preconditions that must occur prior to executing the test case

Test Steps	Requirements	Sessions	Attachments	History	Comments		
□•	STEP #		STEP DESCRIPTION	_			EXPECTED RESULT
	0		Precondition is empty				
						+ ADD	

- Click "+ ADD" to enter test steps. For each step, provide the following:
  - i. Step #,
  - ii. Step Description, and
  - iii. Expected Result

est Steps	Requirements	Sessions	Attachments	History	Comments	
] ▼ STEP	#	STEP DESCRIPTIO	N			EXPECTED RESULT
0		Precondition				
] 1		Enter Test step de	escription			Enter expected result
						+ ADD

## How to Edit a Test Case

qTest allows the user to edit an existing test case. When editing the test case, remember to only change the latest version of the test case. To review the changes that were made, navigate to the **History** tab.

**Step 1:** Click on the **Test Design** tab from the top menu and expand the project folder "MP\_*Market Participant's name*" on the left panel. Select the relevant testing phase (i.e., "Market Trials") from the available folder options below.



**Step 2:** Expand the "Exploratory" subfolder.



**Step 3:** Select the test case name that needs to be edited.

MP_Blue Mountain Aero Electric MP_Blue Mountain Aero Electric Market Trials	Test Case TC-334 Subscribe this item	
✓ MIM → DDD → RTEM	✓ Test Case Properties	
<ul> <li>FOREBAY</li> <li>OPRES</li> </ul>	Status	
SCHEDULE     Exploratory	Assigned To	
EMI	N/A	•

Before making any changes, ensure that the version of the test case that will be edited is the latest one. To confirm, check the "Version" number under "Test Case Properties."

Sample Exploratory testcase				CREATE TEST RUN APPROVE SAVE RELOAD
∼ Test Case Properties				
Status		Туре		Version
New	•	Manual	*	0.2 *
Assigned To				
N/A	-			

Users can also check the "History" tab to review the list of changes that were made to the test case since its creation.

Test Steps	Requirements	Sessions	Attachments	History	Comments
CHANGES				C	DATE BY
▶ 0.1				0	06/23/2024, 7:32:42 PM
▶ 0.2				0	06/23/2024, 7:33:09 PM

**Step 4:** Update the test case.

### Removing a Step from the Test Case

**Step 1:** Click on the blue icon and select Delete from the list options.

Test St	eps F	Requirements	Sessions	Attachments	History	Comments		
•	STEP #	STEP D	ESCRIPTION			EXPECTED RESULT	Ø	ACTION
	0	Precon	dition if any					0
	1	Sample	e step description			Sample expected step		
	2							8
						+ ADD		
•	Add							
	Dele	te						
1	► Move	e up						
4	- Move	e down						
•	<b>T</b> est	Cases						

#### Step 2: Click Save.

CREATE	TEST RUN	APPROVE	SAVE	RELOAI
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## Adding a Step under the Test Case

**Step 1:** Click on the **+ADD** icon.

Test St	eps	Requirements	Sessions	Attachments	History	Comments		
	STEP #	STEP DE	ESCRIPTION			EXPECTED RESULT	Ø	ACTION
	0	Precond	dition if any					0
	1	Sample	step description			Sample expected step		8
	2				Г			8
					L	+ ADD		

**Step 2:** Enter a description and expected result of the new test step.

Test St	eps	Requirements	Sessions	Attachments	History	Comments		
	STEP #	STEP DI	ESCRIPTION			EXPECTED RESULT	Ø	ACTION
	0	Precon	dition <mark>i</mark> f any					0
	1	Sample	e step description			Sample expected step		8
	2							8
-						+ ADD		

#### Step 3: Click "Save."

CREATE TEST	RUN	APPROVE	SAVE	RELOA
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## Editing the Properties of the Test Case

**Step 1:** Select the test case that requires a change. **Step 2:** Click on the "Test Case Properties" heading.

Sample Exploratory	testcase
> Test Case Properties	

The following form is displayed.

✓ Test Case Properties		
Status Type		Version
New • Manual	•	0.2
Assigned To		
N/A		
Description		
Font Family - Font Sizes - Paragraph - B I U S H H II		
Priority		
Medium		
Test Steps Requirements Sessions Attachments History Comments		

**Step 3:** Users can change the assignee by clicking on "Assigned To" dropdown menu.

Test Case Properties	
Status	
New	~
Assigned To	
N/A	

**Step 4:** Users can update the description of the selected test case.

Sample Exploratory testcase		
✓ Test Case Properties		
Status		
New	•	
Assigned To		
N/A	•	
Description		
Font Family ▼ Font Sizes ▼ Paragraph ▼ B I 및 S IE IE IE	1	E

**Step 5:** Users can update the priority of the test case by selecting a new value on the "Priority" dropdown field.

Test Case Prop	oerties												
Status											Тур	e	
New									•		Ma	anua	I
Assigned To													
N/A									•				
Description													
Font Family 🔻	Font Sizes 🔻	Paragraph 🕶	В	I⊻	S	≣	ΞĒ	ī	疆	E	≣	Э	
Priority													

Step 6: Click "Save".

CREATE T	EST RUN	APPROVE	SAVE	RELOA
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## How to Approve a Test Case

qTest provides users the ability to control which changes are approved for a test case before it is moved under Test Execution.

**Step 1:** Click on the **Test Design** tab from the top menu and expand the "MP\_*Market Participant's name*" project folder on the left panel. Select the relevant testing phase (i.e., "Market Trials") from the options below.



**Step 2:** Expand the "Exploratory" folder.

- 🗖 ו	MIM	
•	DDD	
•	RTEM	
•	FOREBAY	
	OPRES	
	SCHEDULE	
	Exploratory	

**Step 3:** Select the test case that needs to be approved.

MP_Blue Mountain Aero Electric	Test Case TC-334 Subscribe this item Sample Exploratory testcase	
✓ MIM      DDD      THEM	✓ Test Case Properties	
FOREBAY	Status	
Exploratory	Assigned To	

Before the test case is approved, the icon beside the test case will not include a green checkmark. Verify the version number of the test case under the "Test Case Properties" heading.

MP_Blue Mountain Aero Electric     Connectivity Testing     Market Trials	Sample Exploratory tes	tcase		CREATE TEST RUN APPROVE SAV	E RELOAD
The Phase 1	✓ Test Case Properties				
DDD RTEM					
FOREBAY	Status		Туре	Version	
OPRES     SCHEDULE	New	*	Manual	0.2	*
Exploratory	Assigned To				
Sample Exploratory					

#### Step 4: Click Approve.

CREATE TEST RUN	APPROVE	SAVE	RELOAD
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Once the test case is approved, the version is updated to a whole number and the icon besides the test case name will include a green checkmark.

Connectivity Testing	Sample Exploratory testcase		CREATE TEST RUN APPROVE SAVE R		
	Y Test Case Properties				
FOREBAY	Status		Туре	Version	
SCHEDULE     Exploratory     Sample Explorator	Assigned To		Mariuar	1.0	*

# How to Add a Test Case to the Test Execution Module

A test run is an executable version of a test case. A test case can only be executed if it is under the Test Execution module.

**Step 1:** Click on the **Test Design** tab from the top menu and expand the "MP\_Market Participant's name" project folder on the left panel. Select the relevant testing phase (i.e., "Market Trials") from the options below.

MP_Blue Mountain Aero Electric 🕶	Test Plan	Requirements	Test Design	Test Execution	Defects
8 🖇 🗳 🐧 🕇 📑 😫 🕥	Run Test Ex	ecution			
MP_Blue Mountain Aero Electric					
Connectivity Testing	MP	MP Blue Mountain Aero Electric			
Market Trials					

**Step 2:** Select the application folder.

MP_Blue Mountain Aero Electric 🕶 👘	Test Plan	Requirements	Test Design	Test Execution
MP_Blue Mountain Aero Electric MP_Blue Mountain Aero Electric	Run Test Cyc	le CL-8		
RTM	Stati	stics Properties	Defect Sumr	nary Execution S
DDD FDD OPRES CH		Test Runs	Executed	Unexecuted

**Step 3:** Click the **ADD** button located on the bottom corner of the right panel.

MP_Blue Mountain Aero Electric     E Connectivity Testing	Market Trials	RELOAD
✓ [2] Market Trials ► 10 MIM ► 10 EMI	Statistics Properties Defect Summary Execution Summary	
ContineSettlementForms     To OntineSettlementForms     To Dispatch Services     To Market Trails     To Are End Trails	16         1 <sup>(6)k)</sup> 15 <sup>(944)</sup> Test Runs         Executed         Unexecuted	15 Passed III Unerecured
	Status: All 👻 ( 🕇	
	C #Rows: 200 -	QUICK RUN - ADD DELETE EXPORT- 🕸 -

The Add Test Runs window is displayed.

Add Test Runs Test Plan Requirements	Test Cases Test Executio	on Defects	DATA QUERY VIEW
MP     Connectivity Testing	]		1-4 of 4
<ul> <li>Market Trials</li> </ul>	U ID	NAME	
▶ 🛃 End to End Testing	RL-1	Connectivity Testing	
	RL-2	Market Trials	
	RL-3	End to End Testing	

**Step 3:** Click the **Test Cases** tab from the "Add Test Runs" window.

**Step 4:** Select the folder which includes the test case you want to add as a Test Run (for example, if the test case is saved under the Exploratory folder of Market Trials, select the Exploratory folder).

**Step 5:** In the Test Case grid, select the check box beside the Exploratory sub folder that you want to add as a Test Run.

Add Test Runs			DATA QUERY VIEW	×
Test Plan Requirements	Test Cases Test Execution	Defects		
			Display test cases that have not been added	
Q Search				
- 🕅 MP_	1		1-6 of 6	
Connectivity Testing     Market Trials	DI -	NAME		
Phase 1	MD-20	DDD		
	MD-21	TTEM		
<ul> <li>RTEM</li> <li>FOREBAY</li> </ul>	MD-22	FOREBAY		Export Settings
> OPRES	MD-23	OPRES		Retain test design structure
SCHEDULE     Exploratory	MD-24	SCHEDULE		✓ Do not add duplicate test cases
EMI	MD-25	Exploratory		
End to End Testing			1-6 of 6	Add others CANCEL ADD

**Step 6:** Click **Add** button on the right bottom corner of the screen.



The Add Test Runs window closes, and a message appears to confirm that the Test Run has been successfully added.



## Additional Resources

Please refer to quick take on how to submit test case results and defects in qTest: <u>QuickTake</u> Submission of Test Case Results and Defects in qTest.pdf

## Contact Us

Email questions and/or concerns related to this document to IESOCustomerRelations@ieso.ca.

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