TEST ESTIMATION

How to create testing estimates for your project needs.

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What Are Test Estimates?

What Are Test Estimates?

Test Estimation involves calculation and approximation of Testing volumes, timelines, resources and support needed to complete Workday Testing activities.

It means using metrics from previous, similar sized Workday Projects and experience of Workday Deployments for clients over time as a basis for projecting what Testing might look like
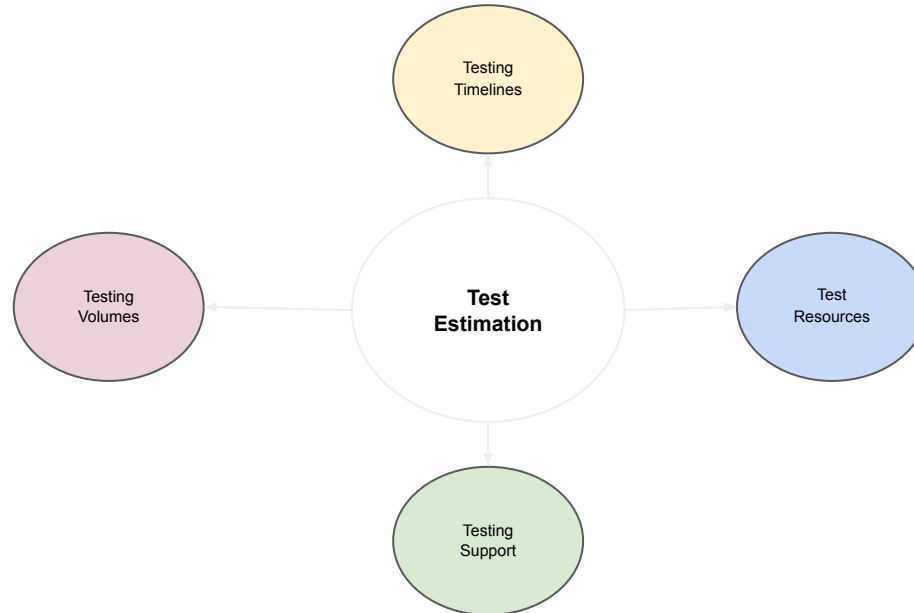
Levels Of Test Estimation

Levels Of Test Estimation

Clientside TESTING

Testing Initiation Phase

Establish High Level Testing Needs

Typical Workday Testing needs:
- Config/Security Tests
- Data Migration checks
- Integration Testing
- BP Testing
- Reports validation

Establish High Level Testing Metrics

Standard Considerations Include
- Past Workday Projects
- Requirement count
- No. Of Locations
- Integration Complexity
- Customisation volume
- Number of Reports

Create High Level Estimates

Recommended Assumptions
- High Estimate = 2 Tests per requirement (positive & negative tests)
- Low Estimate = 1 Test per requirement (happy path)

Detailed Estimation

Review Low Level Docs

Unit/Config Workbook

Data Migration Plan

Integration Design Docs

Business Requirements

Solution Architecture

Review Project Overview/Charter

Establish Accurate Testing Metrics

Standard Considerations Include
- Requirement count
- Test Scenario count
- Data caveats
- Integration Test Scope
- Functional Test Scope
- Prioritised Reports
- Test resource profile per location/stream

Create Detailed Testing Estimates

Guide Metrics
- Based on ACTUAL requirement analysis per location/Workstream
- Considers complexity of Test
- Complexity can be high, medium or low
- An experienced Tester could write or run 10 complex tests daily vs 20 simple tests or 15 medium complex tests
- An business Tester could write or run 5 complex tests daily vs 10 simple tests or 8 medium complex tests

Preparation Phase

Execution Phase

Closure Phase

High Level Test Estimates

Based on Project Overview/Charter Doc & previous Workday Project Experience, Workday Test Managers produce high level estimates that are a vital to the Workday Test Initiation Phase and allow for early project planning, resource alignment and RAID management.

When presenting high level estimates it is important to be transparent with your basis for estimation, and add caveats that detailed Test estimates will follow. Below diagram illustrates the High Level Estimation process

Sample Detailed Test Estimates

Focus Area	Est. No tests (Based on Past Workday Project)	Est. No of Critical tests (Based on Past Workday Project)	Est. Test Coverage (%) *Note Coverage reflects Bronze level risk appetite
Banking & Settlements	100	20	20%
Customer Accounts	100	35	35%
Financial Accounting & Budgets	80	20	25%
Supplier Accounts	70	21	30%
Procurement	80	20	25%
Expenses	75	14	20%
Business Assets	70	21	30%

Detailed Test Estimates

Based on detailed analysis and assessments of Project documentation and requirements, Workday Test Leads produce detailed level estimates that validate the High Level Estimates provided to the Project as revised estimates. The estimates more accurately reflect workloads and so provide realistic projections for Testing activities to be undertaken and complete. Typically, the Test Manager updates the Project and the Testing Schedule to reflect revised estimates

Sample Detailed Test Estimates

Location	Focus Area	Est. No tests (Based on Past Workday Project)	Confirmed No tests (Based on Project Requirements)	Confirmed No Critical tests (Based on Project Requirements)	Test Coverage (%) *Note Coverage reflects Bronze level risk appetite
UK	Banking & Settlements	100	100	20	20%
	Customer Accounts	100	100	35	35%
	Financial Accounting & Budgets	80	80	20	25%
	Supplier Accounts	70	70	21	30%
	Procurement	80	80	20	25%
	Expenses	75	75	14	20%
	Business Assets	70	70	21	30%
Europe	Banking & Settlements	100	100	20	20%
	Customer Accounts	75	75	14	20%
	Financial Accounting & Budgets	70	70	21	30%
	Supplier Accounts	70	70	21	30%
	Procurement	80	80	20	25%
	Expenses	75	75	14	20%
	Business Assets	80	80	20	25%

Importance Of Test Estimates

Importance Of Test Estimates

Test Estimation is key to the Workday Test Management Lifecycle because it provides a framework for which Testing activities can be aligned, developed and completed, in a timely manner that supports project go live.

Main reasons for Test Estimation:

➔ Assure Project Timelines by giving stakeholders a realistic view of workload vs completion
➔ Creates a basis for Test tracking, monitoring and progress reporting
➔ Supports alignment of Test Planning
  ● Resourcing
  ● Technical Support
  ● Business Support
  ● Implementation Partners
  ● Data Loads
  ● Tenant Usage

How To Create Test Estimates

Estimating Test Volumes

From a Testing perspective, it is fair to assume that every requirement will need at least two tests to validate it. 'Happy' path Testing that seeks to confirm the requirement works as expected, followed by validation of a negative functional flow to ensure robust quality. Using this as a metric, count the requirements and do a quick maths based on two tests per requirement as a high estimate, and one test per requirement as a low estimate to get figures for each Test Unit.

Example Scenario

Tony is a Workday Test Lead at Foenix Finance. His PM requested high level estimates for the ongoing Workday Finance Project impacting 10 countries worldwide. With an estimated 50 requirements per Workday Finance stream, Tony needs to create high and detailed level estimates to help facilitate Testing.

Action

Adopting the concept described above, Tony set up a table on an excel sheet (see below) to establish his metric, assuming 1 test per requirement, in the knowledge that Workday's Launch model mandates aggressive delivery timelines. Leveraging his Workday experience and Project guidance on the most sensitive locations, and to allow for some negative tests, his high estimate of 70-80 tests per location is considered sound, as not all negative tests will be valid test scenarios.

Sample Test Volume Estimates Matrix

Location	Est. No tests (Based on Past Workday Project)
UK	80
Spain	75
███████████	80
	75
France	75
Poland	70
Belgium	70
The Netherlands	80
Italy	75
Greece	80
Grand Total	760

Estimating Test Scripting & Execution

Clientside TESTING

Based on past client Workday Implementations, most business testers commit about 2-3 hours per working day to Testing activities, and are able to write or run 5-10 end to end tests in that time. However, it is best practice not to assume this, as Testing cultures differ significantly from organisation to organisation. So, finding out is key. For an idea of average time spent on Testing, and the volume of tests covered in that time, you can reference past Projects or change initiatives that required Testing. Once established, it is safe to use this as a metric.

How? Simple! 5 tests per day becomes the high estimate, and 3 tests per day a low estimate. It means that 80 tests would take 16 days to run, and 26.6 days if running 3 tests daily. An important consideration is the complexity of Tests. Complexity can be high, medium or low. An experienced Tester could write or run 10 complex tests daily vs 20 simple tests or 15 medium complex tests, whilst a business Tester could write or run 5 complex tests daily vs 10 simple tests or 8 medium complex tests

Example Scenario

Aretha is a Workday Test Manager at Primus Insurance. Her Programme Lead has requested Test Scripting estimates for the ongoing Workday Finance Project impacting 8 countries worldwide, to help facilitate Testing. She needs to estimate completion times for Testing Scripts, to provide a basis for monitoring and tracking of daily progress

Action

Adopting the concept described above, Aretha set up a table on an excel sheet to establish her metric, assuming 1 test per requirement, knowing that Workday's Launch model mandates aggressive delivery timelines. Leveraging her Workday experience and Project guidance on the most sensitive locations, and to allow for some negative tests, her high estimate is for 80 tests, with a low estimate of 70 per location. The high estimates were for locations with higher volumes of staff, with an average of 75 for mid sized locations and 70 for the smallest. See sample below

Location	Est. No Tests Scripts Written Daily By Complexity (Based on Past Workday Project)		
	High	Medium	Low
UK	5	7	3
France	5	7	3
Canada	5	7	3
Japan	5	7	3
Belgium	5	7	3
Poland	5	7	3
Spain	5	7	3
Italy	5	7	3
Totals	**40**	**56**	**24**

Estimating Test Execution

Example Scenario

Aretha is a Workday Test Manager at Primus Insurance. His Programme Lead has requested Test Execution estimates for the ongoing Workday Finance Project impacting 10 countries worldwide, to help facilitate Testing. She needs to estimate completion times for Testing to provide a basis for monitoring and tracking of daily progress

Action

Adopting the concept described above, Tony set up a table on an excel sheet (see below) to establish his metric, assuming 1 test per requirement, in the knowledge that Workday's Launch model mandates aggressive delivery timelines. Leveraging his Workday experience and Project guidance on the most sensitive locations and to allow for some negative tests, his high estimate of 70-80 tests per location is considered sound.

Sample Test Execution Estimates

Location	Est. No Approved Tests (Based on Past Workday Project)	Estimated Daily Test Run	Estimated Test Completion (Days)
UK	80	5	16
Spain	75	5	15
Germany	80	3	26.6
Portugal	75	3	25
France	75	5	15
Poland	70	3	20.3
Belgium	70	5	14
The Netherlands	80	5	16
Italy	75	3	25
Greece	80	3	26.6
Grand Total	760	40	19 days (Based on 1 dedicated resource per stream working in parallel

Learner Test

Q&A

1. Explain Test Estimation in your own words

2. Why do Test Consultants need to calculate Test Estimates

3. What are the levels of estimation and the differences between each?

Q&A

4. How do you establish metrics for your estimation

5. How often do you need to update your Test Estimates

6. What Project Stakeholders need to be informed about Testing Estimates

Happy Workday!

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