



The Materials

- ✦ The slides follow the ISTQB Foundation Extension Agile Tester syllabus
- ✦ The terms come from the latest ISTQB Glossary (see next slide also)
- ✦ Two mock exams are included to assess your readiness for the ISTQB Foundation Extension Agile Tester exam
- ✦ Each section includes sample exam questions to check your knowledge as you proceed
- ✦ Exercises are included for main techniques



The Exercises

- ✦ In many of the exercises, you are working as a tester on the Omninet project
- ✦ Omninet is a project to deploy a network of public access Internet kiosks in places like malls, theaters, and other public places
- ✦ On this realistic project, you will have a chance to apply many of the techniques we discuss

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Adapting and Extending Testing Best Practices



Chapter 1: Agile Software Development

Section 2:
Exercise



Exercise: Acceptance Criteria

- ✦ Read the entire Omninet Marketing Requirements Document (also used in subsequent exercises)
- ✦ In groups of three, evaluate section 3.1.2
- ✦ Assume that you are working to define a user story for this section
 - ❑ Define acceptance criteria for the payment processing feature
 - ❑ Note any testability issues that exist with this section

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Chapter 3:

*Agile Testing Methods, Techniques,
and Tools*

Section 1:

Exercise



Exercise: Omninet Test Planning

- ✦ For the Omninet payment processing user story considered so far, determine:
 - ✦ What: test scope and extent of testing for this feature
 - ✦ Where: the test environment, test data, and test props needed to test it
 - ✦ Dependencies: functions, code, system components, vendor, technology, tools, and activities associated with testing this feature
- ✦ Note any additional planning issues you observe

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Chapter 3:

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Section 2:

Exercise



Exercise: Omninet Risk and Estimation

- ❖ For the Omninet payment processing user story considered so far, determine:
 - ❖ What quality risks exist (include functional and non-functional risks)
 - ❖ What level of risk is associated with each risk
 - ❖ What extent of testing is required for each risk
 - ❖ The effort associated with doing that amount of testing
- ❖ You may refer to the Marketing Requirements Document to clarify details
- ❖ Template shown on next page



Quality Risk	Likeli- hood	Impact	Risk Pri. #	Extent of Testing	Tracing

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Chapter 3:

*Agile Testing Methods, Techniques,
and Tools*

Section 3:

Exercise 1

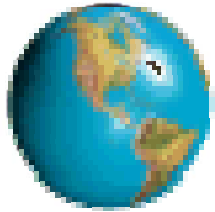


Exercise: Payment User Story

- ✦ Consider the following user story for payment processing
- ✦ As a customer, I want to be able to use a credit card (Visa, MasterCard, or American Express), a debit card (Cirrus or Plus), and local currency (cash only) to make a payment on the Omninet kiosk, so that I can purchase blocks of time on the Internet”
- ✦ Refine the acceptance criteria that you developed in the exercise for section 1.2
- ✦ Identify additional information you would need, beyond what’s in the user story and/or the Marketing Requirements Document

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Chapter 3:

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Section 3:

Exercise 2



Exercise: Black-box Payment Tests

- ✦ Consider the following quality risks identified earlier
 - ✦ Accepting invalid payments
 - ✦ Rejecting valid payments
- ✦ Use any of the black-box test design techniques from the Foundation Syllabus create tests
 - ✦ Show your model
 - ✦ Define inputs and expect results

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Section 3:

Exercise 3



Exercise: ATDD for Payment Processing

- ✦ Use the black-box tests you designed earlier to create an acceptance test-driven development table as shown previously
- ✦ Note any additional test considerations (such as test data, props, etc.) required for the tests
- ✦ If you are not confident that in your design, use the debrief from the previous exercise



Solution: ATDD Table

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Chapter 3:

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and Tools*

Section 3:

Exercise 4



Exercise: Exploratory Test Charter

- ✦ Select any aspect of the Omninet system other than the payment processing described in section 3.1.2
- ✦ Create a test charter, using the template on the next page



Template: Exploratory Test Charter

- ✦ Actor
- ✦ Purpose

- ✦ Setup

- ✦ Priority
- ✦ References

- ✦ Test data

- ✦ Activities

- ✦ Test oracle

- ✦ Variations to try