

# Software Testing **Certifications**

Your first step to becoming an internationally certified software testing professional.

MELBOURNE • SYDNEY • CANBERRA • PERTH • BRISBANE



# Discover - Improving Software Quality

## Setting the standard for professional testers worldwide

Discover delivers certification and practical training Australia wide to improve company software quality practices.

Focused on providing innovative, effective and enjoyable training solutions, Discover can assist your company in improving the quality of its software and systems.

As an ANZTB accredited Training Provider, Discover provides company employees and contractors the opportunity to become Internationally Certified Software Testers.

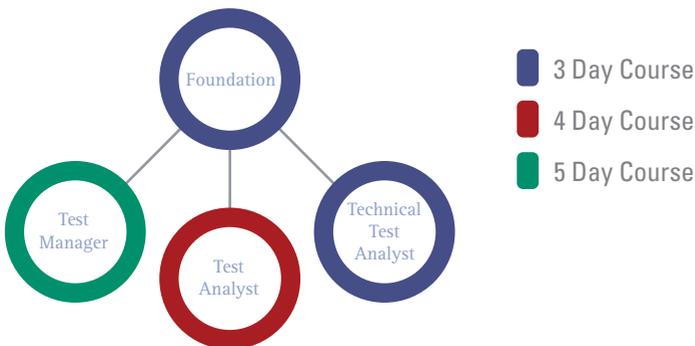
ISTQB is recognised as the largest scheme for certifying testers. Numerous companies across 70 countries support the ISTQB Scheme by incorporating it into the career development paths of their testers.

The Foundation Level sets the basis for understanding a global language of testing whilst the Advanced Level Certifications recognise the thorough knowledge required of a Test Analyst, Technical Test Analyst or Test Manager.

To find out more about our highly experienced and qualified trainers visit [www.discover.com.au](http://www.discover.com.au).

To receive a competitive quotation call us on (03) 9836 2901 or email us at [info@discover.com.au](mailto:info@discover.com.au)

## Choose your testing career path:



# Foundation Course

Our internationally recognised ISTQB Foundation Certificate in Software Testing covers all the fundamentals, allowing software testers to refine, improve and update their existing skills. With this qualification under their belt, you can be confident your testers are implementing worldwide best practices, which ultimately result in an improved outcome for your business.

## Advanced Level in a Nutshell

### Why Advanced?

The Advanced Level qualifications are aimed at people who have achieved an advanced point in their software testing career. This includes testers, test analysts, test engineers, test consultants, test managers, user acceptance testers and software developers.

### Who is it for and what are the pre-requisites?

The Advanced Level qualifications are also appropriate for anyone who wants a deeper understanding of software testing, such as project managers, quality managers, software development managers, business analysts, IT directors and management consultants. To receive an Advanced Level certification, candidates must hold the Foundation Certificate and satisfy the Exam Board which examines them that they have sufficient practical experience to be considered Advanced Level qualified. A specific exam and certification is available for each of the three modules.

### The Discover Experience:

Two key objectives of Discover's training are to assist delegates in obtaining their chosen qualification and to help them apply the learning back in the workplace. A memory stick packed with testing related tools, documents, articles, templates, e-books and exam techniques is provided to each delegate.

Once the course is completed the learning continues. Discover provides extensive Add-on support services. Each delegate receives a variety of sample exam questions and papers which are used as study aids and are evaluated by our team to monitor each delegate's progress and to gauge their readiness to sit the exam.

Delegates can join our exclusive online group, which is a one stop repository of testing information that goes beyond the studying requirements for the exam.

A Certificate of Attendance will be provided to each delegate at the completion of each Course.

# Testing Foundations

## ISTQB Foundation Certificate in Software Testing

This **3 day** course covers the fundamentals of software testing. Recognised as the base line of knowledge for a testing professional, this course is a pre-requisite for completing the ISTQB Advanced Level Certification exams.

### Designed For:

Developers, Testers, Test Analysts, Test Engineers, Test Consultants, Test Managers, Project Managers, Quality Managers and anyone who has an interest in the testing field.

### Learning Outcomes:

- Perform effective testing of software throughout the software lifecycle
- Understand techniques, standards and principles of testing
- Gain a greater understanding of the use of test tools in the testing process
- Establish the test process fundamentals

### Course Content:

- Fundamentals of testing
- Testing throughout the software lifecycle
- Static techniques
- Test design techniques
- Test management
- Tool support for testing

### Evaluation:

This course will provide the delegate with the necessary knowledge and skills to sit the 1 hour ISTQB Foundation Level multiple choice exam.

### Course Benefits:

- To gain an internationally recognised qualification for software and system testing
- To enable professionally qualified testers to be recognised by employers, whilst improving their career path and development
- To promote consistent and good testing practice within all software engineering disciplines leading to greater company productivity and results
- To enable software suppliers to hire fully qualified testers and thereby gain commercial advantage over their competitors by advertising their tester recruitment policy
- To provide an opportunity for testers or those with an interest in testing to acquire an industry recognised qualification on the fundamentals of testing in the software lifecycle

# Test Manager (Advanced)

## ISTQB Certified Tester – Advanced Level Test Manager

This **5 day** course caters for testers wanting to further their career in a management or lead role. The course focuses on providing a framework for test managers to build upon at their workplace. Delegates will be provided with exercises, learning tools and sample exam questions.

### Learning Outcomes:

- Manage a testing project by implementing the mission, goals and testing processes established for the testing organisation.
- Organise and lead risk identification and risk analysis sessions and use the results of such sessions for test estimation, planning, monitoring and control.
- Create and implement test plans consistent with organisation policies and test strategies.
- Continuously monitor and control the test activities to achieve project objectives.
- Assess and report relevant and timely test status to project stakeholders.
- Identify skills and resource gaps in the test team and participate in sourcing adequate resources.
- Identify and plan necessary skills development within the test team.
- Propose a business case for test activities which outlines the costs and benefits expected.
- Ensure proper communication within the test team and with other project stakeholders.
- Participate in and lead test process improvement initiatives.

### Course Content:

- Testing Process
- Test Management
- Reviews
- Defect Management
- Improving the Test Process
- Test Tools and Automation
- People Skills - Team Composition

### Evaluation:

This course will provide the delegate with the necessary knowledge and skills to sit the ISTQB Advanced Test Manager Certificate multiple choice exam.

# Test Analyst (Advanced)

## ISTQB Certified Tester – Advanced Level Test Analyst

This **4 day** course builds on the Foundation level for testers wanting to further develop their test analysis, design and execution skills. Delegates will be provided with exercises, learning tools and sample exam questions.

### Learning Outcomes:

- Perform the appropriate testing activities based on the software development lifecycle being used.
- Determine the proper prioritisation of the testing activities based on the information provided by the risk analysis.
- Select and apply appropriate testing techniques to ensure that tests provide an adequate level of confidence, based on defined coverage criteria.
- Provide the appropriate level of documentation relevant to the testing activities.
- Determine the appropriate types of functional testing to be performed.
- Assume responsibility for the usability testing for a given project.
- Effectively participate in formal and informal reviews with stakeholders, applying knowledge of typical mistakes made in work products.
- Design and implement a defect classification scheme.
- Apply tools to support an efficient testing process

### Course Content:

- Testing Process
- Test Management: Responsibilities for the Test Analyst
- Specification-Based Test Design techniques
- Defect and Experience Based Test Design techniques
- Test Software Characteristics
- Reviews
- Defect Management
- Test Tools and automation

### Evaluation:

This course will provide the delegate with the necessary knowledge and skills to sit the ISTQB Advanced Test Analyst Certificate multiple choice exam.

# Technical Test Analyst (Advanced)

## ISTQB Certified Tester – Advanced Level Technical Test Analyst

This **3 day** course focuses on advancing the technical test analyst's skill set. The course covers risk-based testing, structure-based (white box) test design techniques, and static and dynamic analysis techniques. Delegates examine quality characteristics including reliability, security, performance (load and stress) and portability testing and learn to select appropriate tools to automate technical testing tasks such as web-based testing, unit testing and performance testing. Delegates will be provided with exercises, learning tools and sample exam questions.

### Learning Outcomes:

- Recognise and classify the typical risks associated with the performance, security, reliability, portability and maintainability of software systems.
- Create test plans which detail the planning, design and execution of tests for mitigating performance, security, reliability, portability and maintainability risks.
- Select and apply appropriate structural design techniques to ensure that tests provide an adequate level of confidence, based on code coverage and design coverage.
- Effectively participate in technical reviews with developers and software architects applying knowledge of typical mistakes made in code and architecture.
- Recognise risks in code and software architecture and create test plan elements to mitigate those risks through dynamic analysis.
- Propose improvements to the security, maintainability and testability of code by applying static analysis.
- Outline the costs and benefits to be expected from introducing particular types of test automation.
- Select appropriate tools to automate technical testing tasks.
- Understand the technical issues and concepts in applying test automation.

### Course Content:

- The Technical Test Analyst's Tasks in Risk-Based Testing
- Structure-Based Testing
- Analytical techniques – Static and Dynamic Analysis
- Quality Characteristics for Technical Testing
- Reviews
- Test Tools and Automation

### Evaluation:

This course will provide the delegate with the necessary knowledge and skills to sit the ISTQB Advanced Technical Test Analyst Certificate multiple choice exam.



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