

Practical Software Testing

Course Description

This course explains the fundamentals of software testing. It not only provides a theoretical framework, but also shows how to practically implement software testing techniques.

Practical Software Testing explains how to prioritise and implement a testing program. It also addresses management issues, such as:

- the reporting of defects,
- the importance of configuration management, and
- how to predict testing staff requirements.

In addition, each candidate is supplied with guidelines on how to improve testing effectiveness in their work environment.

Intended Audience

The course is relevant to junior testers, experienced testers, test analysts, test managers and business analysts.

Course Content

The course covers the following areas:

- **Inspections**
Inspections are one of the most powerful techniques in software testing, yet they are seldom used because people often underestimate their cost-saving effect. Candidates will not only be taught how to use inspections, but will also be shown how to apply them for maximum effect.
- **Requirements management**
Candidates will learn a process that identifies, prioritises and tracks the status of testable requirements. This process greatly enhances test management planning, design, execution and reporting.
- **Test planning**
Candidates are taught test planning techniques according to internationally recognised standards. The test plan specifies many important issues, e.g. it defines the scope of the testing project, schedules detailed testing tasks, and identifies the necessary resources.
- **Testing techniques**
Various techniques to select and design effective tests are taught. This enables testers to find the most serious faults in the shortest time.
- **Defect management**
Defect management not only allows testers to track faults, but also provides them with the techniques necessary to provide management with insightful reports. These reports include measures that show when testing on a project is no longer cost-effective. In addition, defect classification, analysis and metrics are discussed, and practical conclusions are drawn from these.

- **Testing types**
The course presenter will explain various verification and validation testing types, when these should be used and how they should be implemented.
- **Other areas**
The course also covers other areas, such as:
 - the Test Quality Triad
 - when to introduce testing into the software development life cycle
 - tips, tricks and case studies
 - answers to work-related testing questions

Course Details

- **Prerequisites**
Previous experience in software testing is not necessary; however, general knowledge of the information technology industry is an advantage.
- **Course presentation and duration**
The course is presented by an experienced software testing practitioner. The course duration is three days. It runs from 8:00 to 16:30. This includes a lunch and two tea breaks daily.
- **Training style**
The course is conducted in a classroom style. Candidates use practical tasks to consolidate theoretical concepts. Any testing-related problems encountered in the workplace can be discussed in the course.
- **Course materials, certification and assessment**
Comprehensive course notes are provided. Practical exercises, which are completed during the course, are handed in for evaluation. On successful completion of this course, the Test and Data Services' *Certificate in Practical Software Testing* is awarded. The candidate's result will be displayed on their certificate.
- **Training Venues**
Test and Data Services presents courses at several well-established training facilities in Midrand (near Johannesburg and Pretoria), Cape Town and Durban. Training can be arranged at the client's premises depending on adequate facilities and candidate numbers.

Contact

	Gauteng	Cape Town	All Other Areas
Telephone	(011) 848-7600	(021) 447-1147	(011) 848-7600
Fax	(011) 848-7611	(021) 447-1148	(011) 848-7611
Physical Address	Tuscan Gardens Office Park 1740 14 th Street Noordwyk	A308 Gate House Black River Office Park Fir Street Observatory	
Postal Address	P O Box 14138 Lyttelton 0140	P O Box 12968 Mowbray 7705	P O Box 14138 Lyttelton 0140
Training Enquiries	training@testdata.co.za (011) 848-7600	training.ct@testdata.co.za (021) 447-1147	training@testdata.co.za (011) 848-7600
General Enquiries	info@testdata.co.za (011) 848-7600	info.ct@testdata.co.za (021) 447-1147	info@testdata.co.za (011) 848-7600
Test Focus Magazine	info@testfocus.co.za (011) 848-7600	info@testfocus.co.za (011) 848-7600	info@testfocus.co.za (011) 848-7600