

# Software Testing Overview for Developers

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## Course Description

Software testing and development are interdependent activities. This course aims to equip developers with a thorough understanding of testing approaches, techniques and skills.

The course looks at the role of developers in areas such as test planning, implementation, and defect tracking. It explains how to review and manage requirements and how to incorporate testing into the software development life cycle.

## Intended Audience

The course is aimed at developers and other people closely related to the technical aspects of the development process (such as system architects).

## Course Content

The course covers important areas of software testing such as:

- **Inspections**  
Inspections are one of the most powerful techniques in software testing, yet they are seldom used since people often underestimate their cost-saving effect.  
  
The module gives developers an insight into:
  - the important role that developers play in the inspections process,
  - the role of inspections in the software development process,
  - when inspections should be implemented, and
  - what results can be expected.
- **Requirements management**  
Candidates learn how testers identify, prioritise, and track the status of testable requirements. These skills greatly enhance test planning, design, execution, and reporting.
- **Testing techniques**  
Some of the various software testing techniques used by testers are explained. It is very useful for professionals who interact with testers (such as developers) to understand these techniques.
- **Defect management**  
The various components of the defect management process are discussed. This enables candidates to understand how factors both inside and outside the testing team impact on the success of the testing initiative. They will discover how to improve production processes so that defects are handled effectively.
- **Testing types**  
This section looks at different testing types and at what stage in the software development life cycle they should be implemented. It also addresses issues such as expected results, and the advantages of each testing type.

## Course Details

- Prerequisites**  
 Previous exposure to software development is recommended.
- Course presentation and duration**  
 The course is presented by an experienced software testing practitioner. The course duration is one day. It runs from 8:00 to 16:30. This includes a lunch and two tea breaks.
- 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 and certification**  
 Comprehensive course notes are provided. On completion of this course, the Test and Data Services' *Software Testing Overview for Developers Certificate* is awarded.
- 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

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