

*Within a test project, test design techniques are used to help design appropriate test cases. This course describes the most commonly used techniques to derive test cases from system documentation.*

# Test Design Techniques

The use of structured testing is a crucial step forward in increasing the software quality. This course describes the most commonly used techniques for deriving test cases from system documentation. Examples and exercises are used to teach each technique, which is closely examined for its applicability.

## Course Objectives

The objective of this course is to gain an understanding of the different test design techniques available and to be able to apply these techniques.

## Typical Audience

This course is intended for anyone involved in testing and quality matters, including Test engineers, Test managers, Project managers and Quality managers.

## Prerequisites

A firm understanding of the test process is required.

## Course Outline

### WHITE BOX DESIGN TECHNIQUES

- Line coverage
- Statement coverage
- Decision coverage
- Condition coverage
- Decision condition coverage
- Multiple condition coverage
- Determination condition coverage

### BLACK BOX DESIGN TECHNIQUES

- Equivalence Partitioning
- Boundary Value Analysis
- Algorithm Test
- Decision Table Test
- Syntactic Test
- Semantic Test
- Elementary Comparison Test
- Data Cycle Test / Entity Life Cycle Test
- Process Cycle Test
- Program Interface Test
- Real-Life Test
- Error Guessing
- Random Test
- Idiot Proofing

## Course Delivery

Approximately 50% of the class is devoted to lab exercises.

Throughout the course, an experienced trainer and expert in software testing provides lectures and gives exercises based on real world projects. Courses can be given in English or Dutch. Course material is in English.

## Course Duration & Venue

The course duration is 2 days.

This course can be given at the client's site or at CTG.

## Administration & Pricing

### ▪ Pricing

VAT excluded, course material, lunch and beverages included.  
€ 500 per person per day (15% discount from the 5<sup>th</sup> subscriber).  
€ 3000 for a group of 7 to 10 persons per day.

### ▪ Cancellation

By Participant – If a subscribed course participant is replaced by another participant or if the public course is postponed to a later date no cancellation costs apply. A participant or a group that fails to attend, or that cancels a course without at least 15 working days written notice prior to the course start, is liable for the full subscription cost.

By CTG – CTG reserves the right to cancel a course at any time.

### ▪ Course Logistics

All classroom courses begin promptly at 9 am and are scheduled until 5 pm.  
When a course takes place at the client's site, the client is responsible for the set-up of the classroom, including installation of the necessary software.  
A calendar with course dates is available on our website.

## Contact us

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