



OPENTTCN

TTCN-3 Basics

Course Description

Version 2.57.0

COURSE DESCRIPTION

TTCN-3 Basics

TTCN-3 Basics is an introductory training course of TTCN-3 testing language with programming exercises. The course aims to give our customers a more detailed picture and a basis for the work with TTCN-3 later on. This course is suited for understanding TTCN-3 in order to understand the test cases if new test cases are programmed, if test cases contain errors and they need to be corrected, and if test cases signal errors and it needs to be determined if the implementation or the test cases contains a problem.

Course Objective

To understand TTCN-3 testing language and architecture, and to be able to create own TTCN-3 modules and test cases, or to understand existing test specifications.

Target Audience

Training suits for software and testing engineers that write test cases in TTCN-3 or are responsible for test execution.

Prerequisites

Basic knowledge about testing and programming languages.

Material

Material and TTCN-3 tool for learning purposes will be provided during the course in electronic format. The training version of the tool will be valid for 30 days so that participants can continue learning and experimenting also after the course.

Duration

3 days, 3 x 7 x 45 minutes including programming exercises

Course Content

Day 1

- Speaker
- TTCN-3
 - Introduction
 - Resources
 - Case: TTCN-3 test suite
- OpenTTCN Tool
- TTCN-3 Architecture
- TTCN-3 Language

Day 2

- Basic Constructs & Basic TTCN-3 Types
- Control Structures and Loops
- Functions
- Test Case
- Ports and Components
- Test System Interface
- Configuration Operations
- More Types
- Matching Mechanisms
- Templates
- Message-based Communication

Day 3

- Materials Used in Testing
- Timers
- Handling Alternatives
- Error Handling
- Advanced Matching Mechanisms
- Advanced Templates
- More Types
- Modular TTCN-3
- Control Part