



TTCN-3 Adaptation and Integration

Course Description

Version 2.57.0

COURSE DESCRIPTION

TTCN-3 Adaptation and Integration

TTCN-3 Adaptation and Introduction is a training course of implementation of TTCN-3 test system, especially about implementation of SUT adapters and coding and decoding. The course also covers implementation of platform adapter and integration of test management user interfaces.

Course Objective

To understand TTCN-3 architecture and to be able to create own TTCN-3 SUT adapters and coding and decoding and to integrate test management user interfaces to TTCN-3 test system.

Target Audience

Training suits for software and testing engineers that are responsible for creating TTCN-3 SUT and platform adapters.

Prerequisites

TTCN-3 Basics or equivalent knowledge about TTCN-3 is required. OpenTTCN recommends OpenTTCN TTCN-3 Basics course to be attended before this course. Basic knowledge about programming using ANSI C is required.

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

- TTCN-3 Adapter Requirements
 - Ports
 - Messages
 - External functions
- Introduction to Adapters
 - Adapter types
 - Initialisation and registration of adapters
- SUT Adapter
 - Use of SUT adapter
 - Implementing message-based communication
 - Implementing external actions

Day 2

- Coding and Decoding
 - Use of coding and decoding
 - Type and encoding rule and variation information
 - Implementing an encoder and decoder
 - Use of decoding hypothesis

Day 3

- Platform Adapter
 - Overview of platform adapter
 - External functions
 - User specific timer implementation
- Test Management Integration
 - Choices for test management
 - Integration strategies
 - Test management API