Training courses

Introduction

We provide training courses that teach the fundamentals of efficient verification of critical software and how to use Rapita solutions to verify software efficiently.

Standard courses

We provide standard training courses, which cover introductory and intermediate concepts.

Custom courses

We provide custom Advanced training courses to cover the specific topics that best meet your training needs.

Delivery

We are flexible and can accommodate training in a variety of formats in order to best meet your needs, including:

- *Online training*, where we provide training through an online platform.

- *On-site training*, where we provide training at your site.

- *Local workshop* training, where we provide training at a public venue.

Where training courses include a practical component, we provide tool licenses and project materials for trainees to perform practical aspects of the training under the guidance of our trainers.

We provide electronic copies of our training materials, which trainees can keep.

We provide certificates to trainees that complete our training courses on request.

RVS tool training courses

Our R**VS** tool training courses teach everything needed to understand how to use R**VS** tools to verify critical software. We also teach fundamental concepts of verification.

Topics

We provide training on various elements of R**VS** usage and verification in general. For more information, see each training course.

Practical training

Our Advanced R**VS** tool training courses include practical components so trainees can put what they learn into practice. We provide licenses and materials to support practical components of the training.

Dynamic anlysis and zero-footprint training

We provide both Dynamic analysis (e.g. Rapi**Cover**) and Zero-footprint (e.g. Rapi**Cover** Zero) versions of our training courses depending on your needs.

Trainers

Our R**VS** tool training courses are delivered by specialist Rapita Field Application Engineers, who provide support services related to using R**VS** daily.

Delivery

- Online, On-site (preferred) or Local workshop

Duration

- 0.5 day for Introductory training (per course)
- 0.5 day for Intermediate training (per course)
- Variable for Advanced training depending on topics covered

Functional and requirements-based testing training courses

Introductory training

- Introduction to Rapi**Test**
- Introduction to functional testing concepts
- Writing spreadsheet tests
- How to run an integration
- Understanding and analyzing results
- Exporting results

Intermediate training

- Intermediate functional testing concepts (stubbing, fault injection)
- Writing tests in the Rapi**Test** Scripting Language (RTS)
- Target integration
- Interfacing with other R**VS** plugins (Rapi**Cover** and Rapi**Time**)
- Customizing the Rapi**Test** workflow
- Integrating Rapi**Test** with requirements management software
- Continuous integration and Rapi**Test**

Advanced training

Custom training courses including practical components. A wide range of advanced Rapi**Test** concepts can be covered, including:

- Advanced functional testing concepts (stub sequences, multithreaded testing)
- Importing test vectors from third-party tools
- Batching and parallelizing testing
- Interfacing with test bench hardware
- Advanced integration concepts
- Optimizing data collection
- Scripting the analysis
- Preparation for qualification

Structural coverage analysis training courses

Introductory training

- Introduction to Rapi**Cover**
- How to run an integration
- Understanding and analyzing results
- Exporting results

Intermediate training

- Target integration
- Selecting instrumentation
- Creating justifications
- Merging coverage from multiple runs and/or builds
- Customizing the Rapi**Cover** workflow
- Integrating Rapi**Cover** with requirements management software
- Continuous integration and Rapi**Cover**

Advanced training

Custom training courses including practical components. A wide range of advanced Rapi**Cover** concepts can be covered, including:

- Managing resource limitations
- Advanced integration concepts
- Optimizing data collection
- Scripting the analysis
- Preparation for qualification
- Zero-footprint structural coverage analysis

Execution time and scheduling visualization training courses

Introductory training

- Introduction to Rapi**Time** and **RapiTask**
- Principles of execution time analysis
- How to run an integration
- Understanding and analyzing results
- Exporting results

Intermediate training

- Target integration
- Selecting instrumentation
- Customizing the R**VS** workflow
- Refining Rapi**Time** analysis
- Continuous integration and Rapi**Time**

Advanced training

Custom training courses including practical components. A wide range of advanced Rapi**Time** and Rapi**Task** concepts can be covered, including:

- Managing resource limitations
- Advanced integration concepts
- Optimizing data collection
- Scripting the analysis
- Optimizing code for worst-case behavior
- Handling indirect calls
- Calibrating execution time impact from instrumentation
- Preparing for qualification
- Zero-footprint execution time analysis