



## AdaTEST 95

09:15 *Arrive*

09:30 **INTRODUCTION**

**Presentation:** Course introduction and overview of AdaTEST 95

### AdaTEST 95 TEST HARNESS

**Presentation:** Introduction to unit testing with AdaTEST 95

- What does AdaTEST 95 do
- The testing process
- How AdaTEST 95 works

**Presentation:** The AdaTEST 95 test harness

- Test script structure
- User interface wizards and options
- Exception handling
- Stubbing
- Executing tests and checking results

**Exercise:** Isolation testing a maths package

11:30 *Break*

11:45 **AdaTEST 95 ANALYSIS**

**Presentation:** AdaTEST 95 Analysis

- Source code instrumentation
- Static analysis metrics
- Coverage analysis metrics
- Configuring analysis criteria in RuleSets
- Combining coverage analysis over multiple test runs
- Analysing coverage results with HTML Results Viewer (HRV)

**Exercise:** Achieving coverage and static analysis criteria

**Exercise:** Analysing results with HRV

12:30 *Lunch*



13:30

### Automated Variable Checking

**Presentation:** Automated Checking for Ada 95 Types

- Test Support Packages (for automated negative checking)
- TSP Integration with GUI
- Automated Checking for User Defined Types
- Automated Testing Library

**Exercise:** Creating TSPs and testing example using GUI

14:20

### COMMENT DIRECTIVES

**Presentation:** Using AdaTEST 95 Comment Directives

- Test code insertion
- Path checking
- Data coverage checking

15:15

### ADVANCED TESTING TECHNIQUES

**Presentation:** Advanced test techniques for Ada 95

- Testing hidden data
- Using large sets of input data
- Testing Generics
- Stubbing Generics
- Improving testability for object oriented code

16:30

Telephone : +44 (0)1225 475000  
Facsimile : +44 (0)1225 444400  
Email : [tools@ipl.com](mailto:tools@ipl.com)  
Web : [www.ipl.com/tools](http://www.ipl.com/tools)

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