

# VectorCAST/C/C++ Training Class Core Features

## Syllabus

**Duration:** 2 Days

**Goal:** Gain a basic understanding of Unit Testing and Code Coverage concepts

### 1 | Introduction

- > Terminology
- > Unit test concepts

### 2 | Building Environments

- > Prerequisites
- > Whitebox/Blackbox testing
- > Environment building wizard
- > Environment Configuration

### 3 | Creating Test Cases

- > Specifying input & expected values
- > Data types
- > Data entry techniques
- > Compound tests
- > Ranges and Lists

### 4 | Stubbing Fundamentals

- > Stub By function
- > Adding/Supressing Stubs
- > Library Stubs
- > Controlling Stub Behavior

### 5 | Testing C++ Classes

- > (C++ Customers only)
- > C++ Harness architecture: class instance objects, member variables etc.
- > Class instances and constructors

### 6 | Code Coverage

- > Coverage types
- > Coverage options
- > Understanding MC/DC

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### 7 | Test Reports

- > Execution reports
- > Coverage reports
- > Management reports

### 8 | User Code

- > Parameter user code
- > Test Case user code
- > User code syntax

### 9 | Analytics

- > Client Usage

### 10 | Regression Testing

- > GUI Usage only
- > Basic Configuration