Module Guide

Client: e.g. NA

IP Ownership: QA

Project Name: e.g. NA

Module Name: e.g. QATDDJAVA

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| **Version Control** | | | | |  |  |
| **No** | **Date** | **Created By** | **Status** | **Change summary (& requestor)** | **Applies to:**  **(complete for part modules)** | **Sign-off/ peer review** |
| 1.0 | 14/02/23 | Selvyn Wright | Initial draft for review |  |  |  |
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**Module Owner / Course Consultant**

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**Module Aims and Objectives**

Aims and Objectives (to be replicated in course advertising, e.g. on QA Public website for public schedule courses)

**Module Structure and Timings**

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| --- | --- | --- | --- |
| **Title** | **Test Driven Development Lifecycle** | | |
| **Duration** | **90 minutes**(approximately) | | |
| **Structure** | **No.** | **Section Title** | **Anticipated Duration** |
| 0 | **Welcome to the module** | 3 minutes |
| 1 | **TDD, Test Coverage, Test Data** | 30 minutes |
| 2 | **QUICKLABS – TDD Walkthrough** | 30-40 mins |
| 3 | **QUICKLABS - TDD Lifecycle** | 60 minutes |
| **Total anticipated duration** | | **120 minutes**(approximately) |

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| **Title** | **Anatomy of a Unit Test** | | |
| **Duration** | **90 minutes**(approximately) | | |
| **Structure** | **No.** | **Section Title** | **Anticipated Duration** |
| 0 | **Welcome to the module** | 3 minutes |
| 1 | **Unit tests, good and bad, does and don’ts** | 30 minutes |
| 2 | **QUICKLABS – Working with Dependents** | 60 minutes |
| **Total anticipated duration** | | **90 minutes**(approximately) |

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| **Title** | **Test Doubles - Stubs** | | |
| **Duration** | **70-90 minutes**(approximately) – should be completed on morning of second day | | |
| **Structure** | **No.** | **Section Title** | **Anticipated Duration** |
| 0 | **Welcome to the module** | 3 minutes |
| 1 | **Test Doubles – Stubs** | 30 minutes |
| 2 | **QUICKLABS – Modifying tests to work with Stubs** | 40-60 minutes |
| **Total anticipated duration** | | **90 minutes**(approximately) |

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| **Title** | **Test Doubles - Mocks** | | |
| **Duration** | **180 minutes**(approximately) – should be completed on morning of second day | | |
| **Structure** | **No.** | **Section Title** | **Anticipated Duration** |
| 0 | **Welcome to the module** | 3 minutes |
| 1 | **Test Doubles – Mocks, including demo code** | 30 minutes |
| 2 | **QUICKLABS – Mocks, FileLoader examples** | 60 minutes |
| 3 | **QUICKLABS – Case Study, using Mocks, TopicScoreWriter** | 90 minutes |
| **Total anticipated duration** | | **180 minutes**(approximately) |

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| --- | --- | --- | --- |
| **Title** | **Working with Untestable Code and Legacy Code** | | |
| **Duration** | **180 minutes**(approximately) – should be completed on morning of second day | | |
| **Structure** | **No.** | **Section Title** | **Anticipated Duration** |
| 0 | **Welcome to the module** | 3 minutes |
| 1 | **Untestable code discussion** | 30 minutes |
| 2 | **QUICKLABS – Untestable code walkthrough** | 60 minutes |
| 3 | **QUICKLABS – Case Study, untestable code** | 30 minutes |
| **Total anticipated duration** | | **120 minutes**(approximately) |

**Resources**

Resources:

* Trainer guide (this document)
* Delegate Guide parts 0 – 12
* Exercise Guide parts 0 – 12
* Appendices
* Set-up Document
* Trainer slides documents 0 – 12

**Trainer notes**

Course set-up:

* All public courses run at QA locations will be pre-installed ready for the class.
* Including hardware, software installation and configuration as well as user accounts with correct environment and all files required for the practical’s.
* Git should be used but they do not need a git repo, they can keep everything local

Instructor pre-requisites:

* Knows how to write unit tests, use stubs and mocks, and knows the difference between the two

Delegate pre-requisites:

* Can code in Java

Last version submitted to Courseware / Platforms and Publishing:

* Not so far.

**Changes log**

Version 0 -> 1.0:

Document creation.

Based on QA Bespoke development template and QAPYTH3 Instructor Guide / IK Changes.

Version 1.0 -> 1.1

Amended version control table to include columns covering part version change (below module level appropriate) as this makes the same template suitable for QAA and template has more flexibility

This follows discussion in a call between the PTTs on 4-8-22

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