**Unit 4: Introduction to Testing**

**Objectives:**

* Explore the range of questions to ask when developing a test plan.
* Become familiar with two industry software testing standards.
* Examine a range of testing techniques and appreciate the relevance of each in different testing scenarios.
* Recognise the tools and frameworks which are available to support and automate the Python testing process.
* Reflect on the utility of an ontology to support a distributed architecture.

**Outcomes:**

* Describe the key terms which are associated with testing software for security.
* Prepare a list of questions to ask when designing a test plan for secure software.
* Design software tests through understanding the range of ways which the security of software can be breached.
* Design an ontology which can be used in standardised service deployments.