## Unit 1: Introduction to Secure Software Development

**Objectives:**

* Explore the waterfall and agile approaches to software development, with a focus on the implications of developing secure software using each.
* Become acquainted with the Unified Modelling Language and how it can be used to support software development.
* Gain a familiarity with the standards which are used by industry to develop secure software.
* Appreciate the importance of developing a risk-aware culture within an organization.

**Outcomes:**

* Identify relevant academic literature which discusses the ways in which secure software may be developed using an agile process.
* Decompose an activity into a set of tasks which can be represented using a flow chart from the UML portfolio of modelling techniques.
* Describe the importance of creating a culture of risk awareness in an organization, in addition to the creation of secure software.