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# welcome to the Microsoft security development lifecycle (SDL) – Developer Starter Kit

The Microsoft® Security Development Lifecycle (SDL) – Developer Starter Kit consists of a compilation of baseline security developer training content items that provide guidance regarding several core Microsoft SDL topics.

The kit contains 14 succinct, compartmentalized sets of guidance that address the following core Microsoft SDL topics: a) secure design principles; b) secure implementation principles; c) secure verification principles; d) SQL injection; e) cross-site scripting; f) code analysis; g) banned application programming interfaces (APIs); h) buffer overflows; i) source code annotation language; j) security code review; k) compiler defenses; l) fuzz testing; m) Microsoft SDL threat modeling principles; and n) the Microsoft SDL threat modeling tool.

Each set of guidance contains Microsoft Office PowerPoint® slides, speaker notes (.doc), train-the-trainer voiceovers (.wmv), and comprehension questions (.doc)—all of which have generic formatting so customers and developer communities can take advantage of the content to achieve broader, enhanced adoption of SDL principles within their respective organizations. When available, speaker notes include links to Microsoft Virtual Lab demonstrations on the topics discussed.

## Microsoft SDL Optimization Model

The Microsoft SDL Optimization Model assists organizations in facilitating a gradual, consistent, and cost-effective implementation of the SDL and in reducing customer risk. One of the key capabilities provided by the Microsoft SDL Optimization Model on behalf of development managers and IT policymakers is the ability to assess the state of the security of their development organization using the following four maturity levels:

The Microsoft SDL – Developer Starter Kit aligns with the Microsoft SDL Optimization Model by enabling Basic and Standardized organizations to build internal training capability as part of integrating Microsoft SDL into their development practices. For more information regarding the SDL Optimization model, refer to <http://msdn.microsoft.com/security/dd221356.aspx>.

