

Software Assurance for Executives: Mapping of Common Topics to Specific Materials

Purpose of This Document

This document presents

1. an outline of common topics covered in the Software Assurance for Executives class; listed with each topic are the course materials (Video and Slide Sets) pertinent to that topic
2. a list of useful resources

Use this document to organize your course experience or to select materials that focus on a particular area.

Mapping of Common Topics to Specific Materials

Software Assurance

1. Why Is this Important?

Video

Software Assurance Challenges, Software & Supply Chain Assurance: Enabling Enterprise Resilience through Security Automation, Software Assurance, and Supply Chain Risk Management

Slide Sets

Software Assurance Challenges

a. Risks and Threats

Video

Malicious Insiders

b. Critical System Compromises and Failures

Video

Software Assurance Challenges, Software & Supply Chain Assurance: Enabling Enterprise Resilience through Security Automation, Software Assurance, and Supply Chain Risk Management

c. Concepts of Confidentiality, Integrity, Availability, and Authentication

Video

Software Assurance Introduction

Slide Sets

Basic Concepts of Security

d. Principles of Software Assurance

Video

Software Assurance Introduction

Slide Sets

Principles of Software Assurance, Foundations for Software Assurance, Software Assurance Guiding Principles

2. **In-House Versus Acquired**

Video

Software Assurance for Acquisition, Software Assurance in the Software Development Process and Supply Chain, Software & Supply Chain Assurance: Enabling Enterprise Resilience through Security Automation, Software Assurance, and Supply Chain Risk Management

Slide Sets

Acquisition Background

3. **Cloud Component Considerations**

Video

Malicious Insiders, Cloud Computing and Insider Threat

Slide Sets

Cloud Computing Basics

4. **System Evolution**

Video

Software Assurance in the Software Development Process and Supply Chain

Assurance Management

5. **Ownership issues**

Video

Cloud Computing and Insider Threat, Software & Supply Chain Assurance: Enabling Enterprise Resilience through Security Automation, Software Assurance, and Supply Chain Risk Management

Slide Sets

Cloud Computing Basics, Mobile Devices and Removable Media

6. **Assurance Management**

Video

Mission Assurance, Software & Supply Chain Assurance: Enabling Enterprise Resilience through Security Automation, Software Assurance, and Supply Chain Risk Management

Slide Sets

Why care about mission threads?, What does mission failure look like, Mission Thread Analysis, Mission Thread Analysis Application, Mission Thread Analysis Lessons Learned

- a. Making a Business Case for Assurance

Video

Software & Supply Chain Assurance: Enabling Enterprise Resilience through Security Automation, Software Assurance, and Supply Chain Risk Management

- b. Compliance with Laws, Regulations, Standards, Policies, and Best Practices

Video

Software & Supply Chain Assurance: Enabling Enterprise Resilience through Security Automation, Software Assurance, and Supply Chain Risk Management

Slide Sets

Mobile Devices and Removable Media, NIST Security Control Publications, Information Assurance Policy Governs Actions

- c. Best practices

Video

Software & Supply Chain Assurance: Enabling Enterprise Resilience through Security Automation, Software Assurance, and Supply Chain Risk Management

Slide Sets

Mobile Devices and Removable Media, BSIMM3, An assurance ecosystem, Why care about mission threads?, What does mission failure look like?, Mission Thread Analysis, Mission Thread Analysis Application, Mission Thread Analysis Lessons Learned, Two Approaches for Analyzing Risk, Mission Risk Diagnostic, Standard Driver Sets

Software Security Fundamentals

7. Life-Cycle Models

Video

Security Assurance That Works: Applying the Security Development Lifecycle, Software Assurance for Development, Agile 101 for Executives

Slide Sets

Microsoft Security Development LC [Life Cycle] Basics, Software Assurance Lifecycle Models

8. Security and Software Assurance Aspects of Software Development Activities–

Video

Software Assurance for Development, Agile 101 for Executives

Slide Sets

Microsoft Security Development LC [Life Cycle] Basics, Software Assurance Practices, Requirements Engineering, SQUARE, SwA Acquisition Background, Introduction to A-SQUARE

9. Basic Concepts of Security

Video

Software Assurance Introduction, Software Assurance for Development

Slide Sets

Basic concepts vul-risk-threat-attacks, Basic Concepts of Security

Security in Detail

10. Threats and Attack Vectors

Video

Software Assurance for Development, Security Assurance That Works: Applying the Security Development Lifecycle, Malicious Insiders

11. Security Policy and Its Importance

Video

Software Assurance in the Software Development Process and Supply Chain, Software & Supply Chain Assurance: Enabling Enterprise Resilience through Security Automation, Software Assurance, and Supply Chain Risk Management

Slide Sets

Information Assurance Policy Governs Actions

12. Security from a Return on Investment (ROI) Perspective

Video

Software & Supply Chain Assurance: Enabling Enterprise Resilience through Security Automation, Software Assurance, and Supply Chain Risk Management

13. Security Supply Chain

Video

Software Assurance for Acquisition, Software & Supply Chain Assurance: Enabling Enterprise Resilience through Security Automation, Software Assurance, and Supply Chain Risk Management, Software Assurance: Incorporate Risk Analysis Early in the Acquisition Life Cycle

Slide Sets

Software Assurance: Incorporate Risk Analysis Early in the Acquisition Life Cycle

Software Assurance Risk Management

14. Software Assurance Risk Management –

Video

Software Assurance for Acquisition, Software Assurance: Incorporate Risk Analysis Early in the Acquisition Life Cycle

Slide Sets

Mobile Devices and Removable Media, Risk Management, Risk Management Overview, Two Approaches for Analyzing Risk, Mission Risk Diagnostic, Standard Driver Sets, Risk-Based Measurement Analysis

Conclusion

15. Importance of Software Assurance for Acquirers

Video

Software Assurance Challenges, Software Assurance for Acquisition, Software & Supply Chain Assurance: Enabling Enterprise Resilience through Security Automation, Software Assurance, and Supply Chain Risk Management

16. The Way Forward

Video

Software Assurance Challenges

Slide Sets

Implementation Strategy