



*This is to certify that
Chris FitzGerald
has completed the course
Systems Security Engineering - 206760_eng
on
2/10/08*



Association for
Computing Machinery

Advancing Computing as a Science & Profession



Systems Security Engineering

About This Course

Overview/Description

To define the Systems Security Engineering domain of the ISSEP process.

Target Audience:

Candidates who plan to take the International Information System Security Certification Consortium's (ISC)2 Information Systems Security Engineering Professional (ISSEP) certification or IT professionals who want to learn about the standards and regulations pertaining to systems engineering, certification and accreditation, information assurance, and technical management.

Requires experience in selecting, recommending, and implementing information system security policies, standards, procedures, and technologies.

Certification:

No Certifications for this Course.

Expected Duration:

2 Hours 40 Minutes

First publication date:

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Last revision:

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Course Number:

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Systems Security Engineering Course Objectives

Topic Name	When you have completed this topic, you should be able to
The four domains of ISSEP	identify the four domains that are required to cover the Common Body of Knowledge for ISSEP certification.
The SE and ISSE processes	recognize the components of the SE and ISSE processes.
The ISSE activities	recognize the activities that comprise the ISSE process.
The PNE process	identify the function and procedures of the PNE process.
Identifying SE and ISSE activities	identify SE and ISSE activities.
The correlation between ISSE and C&A	define Certification and Accreditation and its relationship to SE and ISSE.
Defense-in-depth	recognize the concepts and elements of Defense-in-depth.
Risk management	recognize the elements of risk management.
Identifying risk assessment activities	identify risk assessment activities.

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Systems Security Engineering References

Books

Auditing Information Systems, Second Edition

2003, Jack J. Champlain, John Wiley & Sons, 10471281174

Microsoft Encyclopedia of Security

2003, Mitch Tulloch, Microsoft Press, 0735618771

Security Engineering: A Guide to Building Dependable Distributed Systems

2001, Ross Anderson, John Wiley & Sons, 0471389226

Systems Engineering and Analysis

1998, Benjamin S. Blanchard, Wolter J. Fabrycky, Prentice Hall, 0131350471

Systems Engineering Principles and Practice

N/A, Alexander Kossiakoff, William N. Sweet, John Wiley & Sons, 047123443-5

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References for the four ISSEP domains

Systems Security Engineering

Information Assurance Technical Framework (IATF) Release 3.1, September 2002 (Particularly Chapters 2,3, and Appendix J)

NIST Special Publication 800-27, "Engineering Principles for Information Technology Security (A Baseline for Achieving Security)," June 2001

NIST Special Publication 800-30, "Risk Management Guide for Information Technology Systems," October 2001

Security Engineering: A Guide to Building Dependable Distributed Systems, Ross Anderson, John Wiley & Sons, ISBN: 0-471-38922-6

Certification and Accreditation

DoD Instruction 5200.40, "DoD Information Technology Security Certification and Accreditation (C&A) Process (DITSCAP)," December 30, 1997

DoD 8510.1-M, "Department of Defense Information Technology Security Certification and Accreditation Process (DITSCAP) Application Manual," July 31, 2000

FIPS PUB 102, "Guidelines for Computer Security Certification and Accreditation," September 27, 1983

NSTISS Instruction (NSTISSI) No. 1000, "National Information Assurance Certification and Accreditation Process (NIACAP)," April 2000

NSTISS Policy (NSTISSP) No. 6, "National Policy on Certification and Accreditation of National Security Telecommunications and Information Systems," 8 April 1994

Technical Management

Carnegie Mellon Software Engineering Web Site, <http://www.sei.cmu.edu>

Systems Engineering and Analysis, Benjamin S. Blanchard, Wolter J. Fabrycky, Prentice Hall, ISBN: 0-13-135047-1

Systems Engineering Management, Benjamin S. Blanchard, John Wiley & Sons, ISBN: 0-471-19086-1

Systems Engineering Principles and Practice, Alexander Kossiakoff, William N. Sweet, John Wiley & Sons, ISBN: 0-471-23443-5

Systems Security Engineering Capability Maturity Model, International Systems Security Engineering Association, Version 2.0, April 1, 1999/ISO 21827

US Government Information Assurance Regulations

10 U.S.C. Section 2315

Committee on National Security Systems (CNSS) web site, <http://www.nstissc.gov>

Common Criteria for Information Technology Security, National Institute of Standards and Technology, Version 2.0/ISO IS 15408, May 1998

DoD Directive 8500.1, "Information Assurance (IA)," October 24, 2002

DoD Instruction 8500.2, "Information Assurance (IA) Implementation, " February 6, 2003

Executive Order 13231, "Critical Infrastructure Protection in the Information Age," October 16, 2001

Federal Information Processing Standards (FIPS) Publication (PUB) 81, "DES Modes of Operation," December 2, 1980

National Communications Security Committee (NCSC)-2, "National Policy on Release of Communications Security Information to U.S. Contractors and Other U.S. Nongovernmental Sources (U)," July 7, 1983

NCSC-5, "National Policy on Use of Cryptomaterial by Activities Operating in High Risk Environments (U)," January 16, 1981

National Communications Security (COMSEC) Instruction (NACSI) No. 6002, "Protection of Government Contractor Telecommunications," 4 June 1984

National Institute of Standards and Technology (NIST) Special Publication 800-12, "An Introduction to Computer Security: The NIST Handbook," October 1995

NIST Special Publication 800-14, "Generally Accepted Principles and Practices for Securing Information Technology Systems," September 1996

NIST Special Publication 800-18, "Guide for Developing Security Plans for Information Technology Systems," December 1998

NIST Special Publication 800-25, "Federal Agency Use of Public Key Technology for Digital Signatures and Authentication," October 2000

NIST Special Publication 800-47, "Security Guide for Interconnecting Information Technology Systems," August 2002

National Security Telecommunications and Information Systems Security Advisory Memorandum (NSTISSAM) Computer Security (COMPUSEC)/I-98, "The Role of Firewalls and Guards in Enclave Boundary Protection," December 1998

NSTISSAM COMPUSEC/I-99, "Advisory Memorandum on the Transition from the Trusted Computer System Evaluation Criteria to the International Common Criteria for Information Technology Security Evaluation," 11 March 1999

NSTISSAM INFOSEC/I-00, "Advisory Memorandum for the Use of the Federal Information Processing Standards (FIPS) 140-1 Validated Cryptographic Modules in Protecting Unclassified National Security Systems," 8 February 2000

NSTISSAM INFOSEC/2-00, "Advisory Memorandum for the Strategy for Using National Information Assurance Partnership (NIAP) for the Evaluation of Commercial Off-The-Shelf (COTS) Security Enabled Information Technology Products," 8 February 2000

National Security Telecommunications and Information Systems Security (NSTISS) Directive (NSTISSD) No. 500, "Information Systems Security (INFOSEC) Educations, Training, and Awareness," February 25, 1993

NSTISSI No. 4009, "National Information Systems Security (INFOSEC) Glossary," September 2000

NSTISSI No. 4011, "National Training Standard for Information Systems Security (INFOSEC) Professionals," 20 June 1994

NSTISSI No. 4012, "National Training Standard for Designated Approving Authority (DAA)," August 1997

NSTISSI No. 4013, "National Training Standard for System Administrators in Information Systems Security (INFOSEC)." August 1997

NSTISSI No. 4014, "National Training Standard for Information Systems Security Officers (ISSO)," August 1997

NSTISSI No. 4015, "National Training Standard for System Certifiers," December 2000

NSTISSI No. 7003, "Protected Distribution Systems (PDS)," 13 December 1996

NSTISSP No. 7, "National Policy on Secure Electronic Messaging Services," 21 February 1995

NSTISSP No. 101, "National Policy on Securing Voice Communications," September 14, 1999

NSTISSP No. 200, "National Policy on Controlled Access Protection," 15 July 1987

Office of Management and Budget (OMB) Circular A-130, "Management of Federal Information Resources, Transmittal 4," November 30, 2000

OMB Guidance to Federal Agencies on Data Availability and Encryption

OMB M-00-13, "Privacy Policies and Data Collection on Federal Web Sites," June 22, 2000

OMB M-01-08, "Guidance on Implementing the Government Information Security Reform Act," January 16, 2001

Public Law 100-235, "Computer Security Act of 1987," 8 January 1988

Section 3531 Title 44 U.S.C., Government Information Security Reform Act (GISRA)



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Certification and Accreditation - 206761_eng
on
2/10/08*



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Certification and Accreditation

About This Course

Overview/Description

To define ISSE certification and accreditation.

Target Audience:

Candidates who plan to take the International Information System Security Certification Consortium's (ISC)2 Information Systems Security Engineering Professional (ISSEP) certification or IT professionals who want to learn about the standards and regulations pertaining to systems engineering, certification and accreditation, information assurance, and technical management.

Requires experience in selecting, recommending, and implementing information system security policies, standards, procedures, and technologies.

Certification:

No Certifications for this Course.

Expected Duration:

1 Hours 40 Minutes

First publication date:

This course was released August 11, 2004.

Last revision:

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Course Number:

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Certification and Accreditation

Course Objectives

Topic Name	When you have completed this topic, you should be able to
Components of the C&A process	recognize the components of the C&A process.
C&A requirements	identify C&A requirements.
DITSCAP	identify the activities within each phase of the DITSCAP process.
NIACAP and FIPS 102	identify the phases of the NIACAP and FIPS 102 processes.
Comparing C&A processes	identify various C&A processes.

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Certification and Accreditation References

Books

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Microsoft Encyclopedia of Security

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Security Engineering: A Guide to Building Dependable Distributed Systems

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Technical Management - 206762_eng
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Technical Management

About This Course

Overview/Description

To provide an overview of technical management.

Target Audience:

Candidates who plan to take the International Information System Security Certification Consortium's (ISC)2 Information Systems Security Engineering Professional (ISSEP) certification or IT professionals who want to learn about the standards and regulations pertaining to systems engineering, certification and accreditation, information assurance, and technical management.

Requires experience in selecting, recommending, and implementing information system security policies, standards, procedures, and technologies.

Certification:

No Certifications for this Course.

Expected Duration:

1 Hours 20 Minutes

First publication date:

This course was released August 11, 2004.

Last revision:

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Course Number:

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Technical Management Course Objectives

Topic Name	When you have completed this topic, you should be able to
Project planning fundamentals	recognize the fundamentals of project planning.
Systems development process models	identify the features of different systems development process models.
Planning and managing technical effort	identify the tasks and models associated with planning and managing technical effort.
Identifying technical management practices	identify technical management practices.

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Technical Management References

Books

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US Government Information Assurance Regulations - 206763_eng
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2/11/08*



Association for
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US Government Information Assurance Regulations

About This Course

Overview/Description

To outline US government IA regulations.

Target Audience:

Candidates who plan to take the International Information System Security Certification Consortium's (ISC)2 Information Systems Security Engineering Professional (ISSEP) certification or IT professionals who want to learn about the standards and regulations pertaining to systems engineering, certification and accreditation, information assurance, and technical management.

Requires experience in selecting, recommending, and implementing information system security policies, standards, procedures, and technologies.

Certification:

No Certifications for this Course.

Expected Duration:

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US Government Information Assurance Regulations

Course Objectives

Topic Name	When you have completed this topic, you should be able to
Introduction to IA regulations	define the role of the various bodies involved in Information Assurance regulations.
CNSS issuances	identify the role of the CNSS and its issuances.
NIST publications	identify the purpose of NIST documents.
Identifying national security policies	identify CNSS issuances and NIST publications.
Civil agency regulations	identify the regulations governing civil agencies.
DoD regulations	identify DoD regulations.
Identifying policies and regulations	identify civil agency and defense policies.

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