COURSE AGENDA

SECURITY AND RISK MANAGEMENT:

- Confidentiality, integrity, and availability concepts
- Security governance principles
- Compliance
- Legal and regulatory issues
- Professional ethic
- Security policies, standards, procedures and guidelines

ASSET SECURITY:

- Information and asset classification
- Ownership (e.g. data owners, system owners)
- Protect privacy
- Appropriate retention
- Data security controls
- Handling requirements (e.g. markings, labels, storage)

SECURITY ENGINEERING:

- Engineering processes using secure design principles
- Security models fundamental concepts
- Security evaluation models
- Security capabilities of information systems
- Security architectures, designs, and solution elements vulnerabilities
- Web-based systems vulnerabilities
- Mobile systems vulnerabilities
- Embedded devices and cyber-physical systems vulnerabilities
- Cryptography
- Site and facility design secure principles
- Physical security



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COMMUNICATION AND NETWORK SECURITY:

- Secure network architecture design (e.g. IP & non-IP protocols, segmentation)
- Secure network components
- Secure communication channels
- Network attacks

IDENTITY AND ACCESS MANAGEMENT:

- Physical and logical assets control
- Identification and authentication of people and devices
- Identity as a service (e.g. cloud identity)
- Access control attacks
- Identity and access provisioning lifecycle (e.g. provisioning review)

SECURITY ASSESSMENT AND TESTING:

- Assessment and test strategies
- Security process data (e.g. management and operational controls)
- Security control testing
- Test outputs (e.g. automated, manual)
- Security architectures vulnerabilities



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SECURITY OPERATIONS:

- Investigations support and requirements
- Logging and monitoring activities
- Provisioning of resources
- Foundational security operations concepts
- Resource protection techniques
- Incident management
- Preventative measures
- Patch and vulnerability management
- Change management processes
- Recovery strategies
- Disaster recovery processes and plans
- Business continuity planning and exercises
- Physical security
- Personnel safety concerns

SOFTWARE DEVELOPMENT SECURITY:

- Security in the software development lifecycle
- Development environment security controls
- Software security effectiveness
- Acquired software security impact



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