



**Applied Technology
Research Center**



Introduction to Computer Security

For details and registration please call

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ATRC Security Training

What is this course about?

Organizations today increasingly rely on the Internet and networked systems to conduct business. At the same time, cyber crime and security violations pose an ever-growing threat to business-critical functions and data. To mitigate security threats, safeguard sensitive data and maintain business continuity, it is essential that computers and networks be protected.

In this course, you gain the knowledge and skills to effectively and accurately analyze the security risks to your computer and network systems. You also learn how to view security from the standpoint of the attacker, enabling a more successful implementation of Internet and system defenses. The issues of *authenticity*, *confidentiality*, *integrity*, and *availability* form the core of the necessary analysis.

Whatever your business environment, there are steps you can take *today* to help ensure the integrity and confidentiality of your data.

Is this course only valuable for those interested in threats from the Internet?

No. While the course often uses the Internet as an example of an external network, the techniques discussed are equally applicable to all external network connections, including virtual private networks (VPNs), extranets and interdepartmental networks.

What is a security policy and why do I need one?

A security policy is the formal document that describes an organization's system security issues and how they are addressed. This essential document is developed by assessing the costs of security violations and the likelihood of a particular attack or attacks occurring.

Preparing a security policy involves analyzing an organization's risks, selecting those that must be guarded against, and articulating a policy for addressing those risks. Without such a policy, it is impossible to determine the extent to which security measures may protect the organization.



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Who will benefit from this course and why?

This is a valuable course for all managers, network and system administrators, technical staff, support personnel, and others responsible for the security of their organizations' data and systems. In fact, most members of an organization have some responsibility for security, regardless of whether or not they have the authority to implement all aspects of a security policy. From the course's treatment of countermeasures, participants learn how they as individuals can prevent possible internal or external attacks.

What background do I need?

At least 3 years of experience using computers as well as an understanding of the need for computer security is assumed.

Topics :

- Information Security Management
- Security Architecture and Models
- Access Control Systems and Methodology
- Applications and Systems Development
- Operations Security
- Cryptography
- Physical Security
- Telecommunications, Network, and Internet Security
- Business Continuity Planning (BCP)
- Law, Investigations and Ethics