

The Center for Infrastructure Assurance and Security

Voice and Data Security: An Introduction to Information Assurance

About Us

The CIAS was formally launched in 2001 through a cooperative effort of representatives from industry, government, and academia. We are designed to leverage the Infrastructure Assurance and Security (IAS) strengths resident in San Antonio, Texas as part of the solution to the nation's Homeland Security.

With a grant from the Department of Homeland Security's Office of Training and Exercise Integration Secretariat/Training Operations (TEI/TO), formally the Grants and Training (G&T) Training and Education Division (TED), the CIAS has developed a robust set of Security Training courses designed to address cyber security issues from the beginner to the IA professional. Our focus is on assisting states and communities to prevent, detect, respond to and recover from cyber security incidents.

For more information about the CIAS, please visit our web site:
<http://www.utsa.edu/cias>

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Overview

This 4-day lecture and hands-on training course provides an introduction to information assurance and general security practices. The lectures and hands-on practical exercises cover a broad range of topics related to information assurance and information security issues. Students attending this course receive a Certificate of Completion.

Audience

Students should have 0-4 years work experience in general Information Technology and a familiarity with networking and system administration topics including basic networking (TCP/IP, protocols, ports, wireless, etc.) and systems (operating systems, user accounts, etc.).

Prerequisites

Students should be able to recognize the networking terms protocol, port, and TCP/IP; be able to describe wireless technology, the functions of operating systems, and the concepts of computer accounts.

Course Materials

Lecture, practical exercises, and reference materials are provided.

Course Contents

- History of Information Assurance
- The Threat Environment
- Risk Management
- Personnel and Physical Security
- Voice, Network, and Wireless Systems Security
- Operating System Specific Security
 - Windows
 - Linux
- Applications and Individual Security
- Select Advanced Security Topics
 - Information Gathering
 - Steganography
 - Digital Forensics
- Other Applicable Topics

