

Information Security Skills: A Comparison of What Is Used and What Is Taught

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Refereed Track Research Findings

Abstract

This research examined the 10 Certification of Information Systems Security Professional domains to determine if the skills and attributes identified in these domains were being employed in an information systems security work environment and then examined existing National Security Agency Centers of Academic Excellence in Information Assurance Education to determine if these skills and attributes were being taught.

This research indicated that information systems security professionals working in an information systems security work environment employed or addressed the skills and attributes identified in the 10 domains of the Certification of Information Systems Security Professional examination. It also indicated that the skills and attributes taught in the curriculum of National Security Agency Centers of Academic Excellence in Information Assurance Education had no association with the skills and attributes employed, or addressed, by information systems security professionals with one exception covering the following skills and attributes: information systems security involving database and data warehousing, and information storage; and information systems security regarding knowledge based systems and development controls. The results of this research may be used in the development of an information security curriculum