REGULATORY COMPLIANCE AND AUDITING (W/LAB)
Course Syllabus

Course Number: CSFS-0152  OHLAP Credit: Yes
OCAS Code: 8186
Course Length: 130 Hours
Career Cluster: Information Technology
Career Pathway: Network Systems
Career Major(s): Cyber Security Forensics Specialist

Pre-requisite(s): Enterprise Security Management

Course Description: Introduces three typical aspects of information technology (IT) audits: computerized information systems, the computer facility, and the process of developing and implementing information systems. Through readings, case studies, exercises, and discussions, students will learn to plan, conduct, and report on these three types of IT audits. Course topics will include cost/risk tradeoffs, and technical, physical, and administrative methods of providing security and compliance. Current privacy legislation and technical means of providing privacy and IT compliance will also be covered. Students will be able to immediately apply their knowledge to manage the risk of security attacks and implement appropriate compliance policies and strategies. Additional topics may include challenges posed by emerging information technologies, advanced audit software, business continuity planning, and the role of the IT auditor as an advisor to management.


Course Objectives: A. Demonstrate Knowledge of Regulatory Compliance and Auditing
1. Explain information systems security and compliance concepts.
2. Compare/contrast security management and compliance issues.
3. Identify and apply technology risk management strategies/policies/issuses.
4. Apply appropriate concepts of security testing and auditing.
5. Develop detection strategies and response policies.
6. Apply legal regulations and compliance standards.
7. Implement appropriate information assurance and compliance management.
8. Discuss the future of information assurance as it applies to management, policy and legal development, and technology.

ODCTE Objectives

TTC Additional Objectives for RCA

B. Demonstrate Assessment, Audits and Apply Compliance Standards
1. List types of information assets and their values
2. Gain an overview of auditing fundamentals
3. Understand the database auditing environment
4. Create a flowchart of the auditing process
5. List the basic objectives of an audit
6. Define the differences between auditing classifications and types
7. List the benefits and side effects of an audit
8. Create your own auditing models
9. Understand the difference between the auditing architecture of DML Action Auditing Architecture and DML changes
10. Create and implement Oracle triggers
11. Create and implement SQL Server triggers
12. Define and implement Oracle fine-grained auditing
13. Create a DML statement audit trail for Oracle and SQL Server
14. Audit database activities using Oracle
15. Audit server activities with Microsoft SQL Server 2000
16. Audit database activities using Microsoft SQL Profiler
17. Use SQL Server for security auditing

Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.

Grading Procedures: 1. Students are graded on theory and shop practice and performance.
2. Each course must be passed with seventy (70%) percent or better.
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.

Description of Classroom, Laboratories, and Equipment: Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/College Credit The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee, Rogers State University or Tulsa Community College. See program counselor for additional information.

College Credit Eligibility: The student must maintain a grade point average of 2.0 or better.