|  |  |  |  |
| --- | --- | --- | --- |
|  | ISACA Topics | Coverage | Notes/Reading/Assignment |
| Week 6  (3/12) | OS Audit (Unix)  IS Architecture (continuous) and Network Audit | * Network Overview * Network Security and Administration Overview * Audit Network   CISA Quiz #3 | ***CISA Review Manual 2013:*** *4.5.1; 4.5.2;4.5.3;4.5.4; 4.6.4*  ***IT Auditing:***  *Chapter 6 Auditing Windows Operating Systems;*  *Chapter 7 Auditing Unix and Linux;*    *Chapter 5 Auditing Routers, Switches and Firewalls*  Assignment # Two due |
| Week 7  (3/19) | Hardware and Software Inventory Management and Software Licensing  Service Level Management (Part One): Introduce Service level management components and Service Level Agreement (SLA) monitoring. | * Quiz #3 Review * Inventory Management * Software License Management (contract/supporting agreement/license/escrow) * Audit Inventory and Software License * Regulatory Environment and IT Audit * Outsourcing Practice and Vendor Management * Monitoring Outsourcing Practices * Establishing a Measureable Service Level Agreement SLA Monitoring and * Enforcement * Vendor Management and SLA Audit Overview | ***CISA Review Manual 2013:*** *4.2.2;**4.2.8; 4.3.2; 4.4.8;4.4.9*  ***Additional Reading:***    **Group Assignment # Three**  *Develop test procedures for an IT entity your team chooses to audit.*  *Assignment Due Date: 4/2* |
| Week 8  (3/26) | Datacenter Operation Review | * CISA Quiz #4 * Type of Datacenter Operations (In-house, Turnkey and Outsourced) * Maintenance Schedule for HVAC equipment * Service Visit Tracking * Physical Security * Datacenter Audit Overview | ***CISA Review Manual 2013:*** *4.4.6;4.2.10*  ***IT Auditing:***  *Chapter 4 Auditing Data Center and Disaster Recovery*  ***Additional Reading:***    **Group Assignment #Four:**  *Write three high risk findings from the audit your team conducts*    ***Assignment Due: 4/9***  **Individual Assignment:**  Term Paper – *Research Paper upon risks and controls associated with emerging technologies* |
| Week 9  (4/2) | Disaster Recovery (DR), Backup and Restoration:  (case study # 1) | * Quiz 4 review * Back Up and Restoration Mechanism and Applications * Tape and Disk Management Systems * Media Sanitization and Disposal * DR Strategy and Alternatives * DR Plan Development * Measurement of the Adequacy of a DR Plan * DR/Business Continuity Plan Audit Overview | ***CISA Review Manual 2013:*** *4.7*  ***Additional Reading:***    ***Case Study HBP:*** *Engro Chemicals PK*  **Group Assignment # Five**  *Engro Chemicals PK case study analysis*  ***Case Assignment Due Date: 4/16*** |
| Week10  (4/9) | Information System Maintenance and Data Integrity:  (Case Study #2) | * CISA Quiz #5 * Security Objectives * Security Process * Governance * Information Security Risk Assessment * Information Security Strategy * Security Controls Implementation * Security Monitoring | ***CISA Review Manual 2013:*** *4.2.9;4.4.7*  ***Additional Reading:***    *Additional Reading for Week 11*  *Chapter 8: Auditing Web Servers and Web Applications*  *Chapter 13Auditing Applications* |
| Week11  (4/16) | Application Control | * Quiz #5 Review * Open System Interconnection (OSI) Model * OSI Model Application * System Interface Control * Application Audit Overview   + Flow Chart   + Narrative * Cloud Computing * Mobile Computing * Vitalization | ***CISA Review Manual 2012:****4.5.5; 4.5.6*  ***IT Auditing:***  *Chapter 11: Auditing Virtualized Environment*  *Chapter 12: Auditing WLAN and Mobile Devices*  *Chapter 14: Auditing Cloud Computing and Outsourced Operations* |
| Week 12  (4/23)  **SWITCH To Friday 4/25?** | Change Management and Release Management  (Case Study #three) | * Quiz #6 * Cloud Computing * Mobile Computing * Vitalization   ***(Continued from Week 11)***   * Change Management Policies and Procedures * Risks Associated with Change Management * Controls to Detect or to Prevent Unauthorized Changes * Separate Production from Development and Testing * Segregation of Duty * Approval Procedure * Release Management – Notification, Testing and Roll-Out Strategy * Change Management Audit Overview | ***CISA Review Manual 2013:*** *4.2.6; 4.2.7*  ***Effective IT Service Management*** *– Chapter 18 Change Management & Chapter 22 Release Management* |
| Week 13  (4/30) | Availability, Capacity and Incident Management  End User Computing and Performance Monitoring | * Capacity Management * KPI and Measurement * Performance Monitoring Processes and Tools * Problem Recording, Tracking, Escalation and Resolving * Incident Team and Response Procedures * End-user Computing/Help Desk Audit Over view * Help Desk Request Handling * Batch Processing * Scheduling Software and Utilities * Managing scheduled and Non-Scheduled Processes * Operation Center “Run Book” * Job Monitoring * Error Handling and Escalation * Quiz #6 Review * Final Exam Q & A | ***CISA Review Manual 2013:*** *4.2.5; 4.4.7; 4.5.6;*  *4.6.6;4.2.4;**4.3.2; 4.3.3; 4.3.4; 4.6.7*  ***Effective IT Service Management*** *-* Chapter 23 Availability and Capacity    *Self-Study:*  *Chapter 16 Framework and Standards*  *Chapter 17 Regulation* |
| Week16  **(5/7)** | Final Exam | CISA Simulation Test | N/A |