

CYBR 510 – Homework #1 (Team based)

Planning an IT Audit

Due on Sunday 9/1/2024

Instructions and submission:

Read the provided document, then submit your answers in a single Word or PDF file. This is a group-based assignment, and each group should submit only one document to eCampus. If more than one document is uploaded, only the latest submission will be considered. On the first page of your submission, include your group number, the names of all group members, and the homework number.

You may use Large Language Models, such as ChatGPT, to brainstorm ideas, fix grammatical issues, or gather information on specific topics. If you do so, you must provide proper references, including the exact prompts you used to obtain information from these models. Copying and pasting content is prohibited and will be penalized.

Expectations and grading:

This is a group work; each group member is expected to participate in tackling the homework and contribute to the final submission. I highly encourage you to create a shared document (e.g., google document or git) to make contribution easier.

Problem description:

Your team is a small, external IT Audit firm “Duarte Consulting” based out of Laconia, New Hampshire. Recently, the CEO of your firm has secured a contract with a large-sized R1 institution of Higher Education named West Virginia University (WVU). WVU is seeking an external vulnerability management audit of its centralized IT department titled Information Technology Services (ITS).

Your team has been tasked with developing a brief audit planning proposal or presentation to your CEO.

Sections to include in your audit planning proposal:

1. Title / Cover Page: with the names of the group members, homework number, date, and other related information you may find necessary.
2. Background on client organization
3. Disclaimer
4. Risk Management and Compliance Framework
5. Scope of the IT audit
6. Listing of large-scale, centralized systems in use by the client.
7. Points of contact with the client

8. Preliminary timeline for the audit

Some insights to help you with your proposal:

- Research what goes into an audit planning proposal. Also, these suggestions are not exhaustive, be creative in your proposal! Do some background research on WVU to help you answer some of these questions. You would be surprised what you can find by digging around on the web.
- Will in-person meetings be necessary? (Especially due to COVID?)
- For example, what are some large-scale centralized systems that you know WVU uses? (eCampus/Blackboard, STAR, Oracle – Used for Student information and course data, Gmail/MIX, Microsoft O365, etc.)
- Should you choose a risk management framework like NIST SP 800-171 or CMMC to serve as the framework for your audit? If so, which one?
- How is WVU's IT and Management hierarchy structured? How has WVU structured its IT departments?
- Who at WVU should be involved in the audit? Does WVU have an internal audit office? What are their contact information?
- Auditor deliverables are also professionally constructed, so don't hesitate to get creative with the design, template, and layout of the document itself.
- There is no true "right" way of completing this assignment. This is an exploratory and research exercise. See what you can find, be creative, and have fun with this assignment!