Training Software Leaders Project

Purpose

As a professional software engineer and potential corporate leader it will be essential for you to stay abreast of current developments throughout your career that are relevant to your discipline. As you learn of new developments, it will be important to share them within your organization which may include training personnel. The goal of this assignment is to provide you with some experience in researching important key developments and abstracting and communicating the importance of these developments to management inorder to gain their approval for further dissemination within the organization. In addition, the assignment will provide you with the opportunity to gain enough knowledge of the selected topic to develop an outline of the training needed.

Objectives

Learners will be able to:

- Identify and communicate the importance of their selected topic to senior corporate management.
- Develop training objectives for your organization to learn about the topic.
- Identify and select appropriate references for others to learn about the topic.
- Develop an outline to achieve one of the training objectives for your topic.

Technology Requirements

- Word processor
- PDF option to convert the typed document

Directions

Imagine you are working for a large software development firm which utilizes agile software development practices. *If you are currently working for a large software development firm which utilizes agile software development practices, you may use your workplace for inspiration, but please change any actual names and references to people or the company.* Select one of the topics that you would like to learn more about for this assignment:

1. Technical debt
2. Software analytics
3. Lean Six Sigma
4. Open source licenses
5. Generative AI

Using the *Your Name_CSE 566_Training Software Leaders Project_Template* compose a three-part paper:

Part 1: Proposal (500 words or 1 page)

Develop a high-level proposal to your imaginary large software development firm's president advocating the need for training in your organization on the topic you chose.

Value

- Explain to the president of your imaginary large software development firm why your selected topic is important for your organization. Clearly express the potential value of this training to the company.
- Cite references where used in your paper

Training Objectives

- Identify three (3) of what you believe are the most important objectives you hope to accomplish via the training. These should be specific, measurable, and observable. (*Ask yourself: What are the three (3) things that you expect people attending your training to be able to know or how to do?*)
- Cite references where used in your paper

Best Reference for Further Investigation

- Provide what you believe is the best reference for your imaginary president to read/watch/listen to on this topic (e.g., research article, podcast, etc.).
- Explain why you chose this reference amongst all of the other possibilities.

Part 2: Training Outline (500 words or 1 page)

- Select one (1) of your training objectives from Part 1.

- Develop a one-page outline of the information you would cover in the training to accomplish this objective. The outline should include the main topics to be addressed.
- On the provided template, you are strongly encouraged to use an outline format from your word processor to keep your outline organized and professional in appearance. If you currently work at an organization that has a common outline structure, you are welcome to replicate that with the information for this project. Make sure that you review copyright and any proprietary information as to not violate company laws.
- Cite references where used in your paper.

Part 3: References (3-5 Research-Based References)

- Using IEEE or ACM style, list the references you used in your project paper.

Formatting Specifications

The *Your Name_CSE 566_Training Software Leaders Project_Template* has the established formatting with a header for your identification information (Your Name) and the session you are taking this course (e.g., Spring B 2022), headings, subheadings, line spacing, font sizes, margins, and a sans serif font. These specifications were set up to support the use of assistive technologies, such as screen readers.

In-text citations and paraphrased references within the body of your paper should be in IEEE or ACM style. Whichever style you choose, your References page must be in the same style.

Submission Directions for Project Deliverables

You are given a limited number of attempts to submit your best work. The number of attempts is given to anticipate any submission errors you may have in regards to properly submitting your best work within the deadline (e.g., accidentally submitting the wrong paper). It is not meant for you to receive multiple rounds of feedback and then one (1) final submission. Only your most recent submission will be assessed.

You must submit your Training Software Leaders Project deliverable in the appropriate submission space in the course. Learners may **not** email or use other means to submit any project for review, including feedback, and grading.

The Training Software Leaders Project includes **one (1)** deliverable:

1. **Written Final Project Paper:** Your Training Software Leaders Project must be a single PDF with the correct naming convention: *Your Name_CSE 566_Training Software Leaders Project*. You are required to use the provided *Your Name_CSE 566_Training Software Leaders Project_Template*.

Evaluation

Please review the rubric for how this project will be graded. The rubric can be viewed directly in your course, through the submission space for this project. Project papers will be evaluated based on each criterion and will receive a total score.

Prior to starting any graded coursework, learners are expected to read through the rubric so they know how they will be assessed. You are encouraged to self-assess your responses and make informed revisions before submitting your final work. Engaging in this learning practice will support you in developing your best work.

Project papers missing any part of the project will be graded based on what was submitted against the rubric criteria. Missing parts submitted after the deadline will not be graded.

Review the course syllabus for details regarding late penalties.

Scoring Criteria
The learner explains why the selected topic is important for software leaders in their organization and what the potential value of this training is.
The learner identifies **three (3)** of what they believe are the most important objectives they hope to accomplish through training.
The learner identifies what they believe is the best reference for the president to read on the topic they chose and explains why they chose this reference among all of the other possibilities.
The learner develops a **one-page outline** of the information they would cover in order to accomplish the training objective of choice in Part 2.
The learner includes the main topics to be addressed in Part 2.
The learner includes references and cites them in both parts.