

7. **Ask the Professor:** This communication forum provides you with an opportunity to ask your professor general or course content related questions.
8. **Student Break Room:** This communication forum allows for casual conversation with your classmates.

CSU Online Library

The CSU Online Library is available to support your courses and programs. The online library includes databases, journals, e-books, and research guides. These resources are always accessible and can be reached through the library webpage. To access the library, log into the myCSU Student Portal, and click on "CSU Online Library." You can also access the CSU Online Library from the "My Library" button on the course menu for each course in Blackboard.

The CSU Online Library offers several reference services. E-mail (library@columbiasouthern.edu) and telephone (1.877.268.8046) assistance is available Monday – Thursday from 8 am to 5 pm and Friday from 8 am to 3 pm. The library's chat reference service, *Ask a Librarian*, is available 24/7; look for the chat box on the online library page.

Librarians can help you develop your research plan or assist you in finding relevant, appropriate, and timely information. Reference requests can include customized keyword search strategies, links to articles, database help, and other services.

Unit Assignments

Unit IV Case Study

1. Review the information in your textbook (Leveson, 2011, pp. 75-100) related to the STAMP model.
2. Download the two peer-reviewed journal articles, located in the required reading section for this unit, from the CSU Library (Academic Search Complete database) and read both articles.
3. Use the CSU APA-styled paper as a formatting template. Click [here](#), to access the template:
 - a. Compare and contrast the Construction Accident Causation model and the STAMP model.
 - b. Identify STAMP model features inherent within the Accident Causation Management System.
 - c. Describe the benefits and limitations of the STAMP model, the Construction Accident Causation model, and the Accident Causation Management System as each attempt to assist OSHA in the mission of addressing the aspect of human behavior within their respective designs.
4. Prepare a minimum three-page Case Study with no fewer than the three sources identified for the study.

Information about accessing the Blackboard Grading Rubric for this assignment is provided below.

Unit V Homework

Using the sample APA-styled paper (title page, abstract, body, and reference page), write a minimum two-page paper that includes the following:

1. First heading (APA Level 1 heading) should be "STPA." Explain the STPA process, the background behind it, and how it is reflected in systems engineering. Also, describe how the STPA process may be used as a technique to accommodate human controllers. Provide at least one scenario to support your explanation.
2. Second (APA Level 1 heading) should be "Safety-Guided Design Process." Explain the Safety-Guided Design process as it relates to industrial robotics. Also, describe how it may be used as a technique to accommodate humans within the control systems, including managing and designing for human error and error tolerances. Provide at least one scenario to support your explanation.

You are required to use at least one outside source. All sources used, including the textbook, must be referenced; paraphrased and quoted material must have accompanying APA citations.

Information about accessing the Blackboard Grading Rubric for this assignment is provided below.

Unit VIII Homework

Operations Safety Management Plan

- Review the information in your textbook (Leveson, 2011, pp. 412-414) related to the Operations Safety Management Plan design.
- Review the Figure C.1 depiction of a sample Safety Control Structure in your textbook (Leveson, 2011, p. 500).
- Review and use a minimum of five (5) peer-reviewed journal articles from the CSU Online Library (Academic Search Complete) to support your design work.

Then, select one (1) of the following options:

Option 1: Design an Operations Safety Management Plan for your own organization or an organization that is familiar to you.

Option 2: Design an Operations Safety Management Plan for a bulk tank railcar off-loading facility for hydrocarbon products that has the following features:

- a. one railcar switch located next to an interstate highway,
- b. capacity to off-load both liquid hydrocarbon products and liquefied, compressed, natural gas products,
- c. two 500,000-gallon bulk liquid storage tanks for liquid hydrocarbon products,
- d. two 45,000-gallon bullet-styled, horizontal, liquid storage tanks for liquefied, compressed natural gas products,
- e. one off-loading station (single-sided) that is elevated 12 feet from the ground,
- f. one flare for over-pressurized gas tank railcars,
- g. one 3,000-gallon condensation storage tank, and
- h. one switch engine for staging railcars at the off-loading station and at railcar storage tracks.

Using the CSU APA-styled paper as a formatting template, design a minimum eight-page Operations Safety Management Plan with a minimum of five (5) scholarly sources (books and articles) using the following APA Level 1 headings:

1. General Considerations
2. Safety Organization
3. Procedures
4. Schedule
5. Safety Information System
6. Operations Hazard Analysis
7. Evaluation and Planned Use of Feedback for System Maintenance
8. Safety Control Structure Diagram (Design a Safety Control Structure Diagram for your work system and use as the content.)

Information about accessing the Blackboard Grading Rubric for this assignment is provided below.

APA Guidelines

The application of the APA writing style shall be practical, functional, and appropriate to each academic level, with the primary purpose being the documentation (citation) of sources. CSU requires that students use APA style for certain papers and projects. Students should always carefully read and follow assignment directions and review the associated grading rubric when available. Students can find CSU's Citation Guide in the myCSU Student Portal by clicking on the "Citation Resources" link in the "Learning Resources" area. This document includes examples and sample papers and provides information on how to contact the CSU Success Center.

Grading Rubrics

This course utilizes analytic grading rubrics as tools for your professor in assigning grades for all learning activities. Each rubric serves as a guide that communicates the expectations of the learning activity and describes the criteria for each level of achievement. In addition, a rubric is a reference tool that lists evaluation criteria and can help you organize your efforts to meet the requirements of that learning activity. It is imperative for you to familiarize yourself with these rubrics because these are the primary tools your professor uses for assessing learning activities.