

Unit Assignments

★ Unit IV Project ★

Hazard Analysis and Risk Assessment Project

Be sure to read all of the instructions. There are two documents to be prepared and submitted.

1. Following steps 1-11 of the Hazard Analysis and Risk Assessment Guide in the course textbook (pp. 171-174), develop a risk assessment for a serious workplace hazard with which you are familiar, or use Addendum D to Chapter 11 (pp. 202-206) to help you select a hazard. Evaluate the hazard and its associated risks, and then complete the Hazard Analysis and Risk Analysis Project form (click [here](#) to access this form). To complete the Initial Risk Assessment and Post Control Risk Assessment sections, use the following codes based on the Risk Assessment Matrix in Table 11.10 (p.180) of the textbook:

SEVERITY:

- 1 – Catastrophic
- 2 – Critical
- 3 – Marginal
- 4 – Negligible

PROBABILITY (Likelihood of Occurrence):

- A – Frequent
- B – Probable
- C – Occasional
- D – Remote
- E – Improbable

RISK CODE:

- H – High
- S – Serious
- M – Medium
- L – Low

All sections of the form must be completed. Note that the "Post Control Risk Assessment Measures" section reflects the risk assessment AFTER applying the additional control measures.

2. In a separate document of at least 500 words, explain the reasoning behind how you filled out each section of the form. Use references as needed to support the discussion.

Upload both the completed form and the discussion document. Be sure that the discussion document is in APA format with a title page and a reference page.

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

✂ Unit V Article Review ✂

Search the CSU Online Library and locate an article related to hazard identification and control. The Business Source Complete, Academic Search Complete, and Academic OneFile databases are good places to start your search. Try using a variety of search terms (e.g., hazard identification, hazard control, hazard prevention, industrial hazards, occupational hazards, controlling hazards). Search terms can also be derived from the information in Chapter 14 of the course textbook.

The selected article must be from a professional or academic journal, at least two pages in length, and published within the last five years. Be sure that the article is specific to occupational safety and health as some search terms may result in articles related to the finance and insurance industries.

Write a review that includes the following components:

- ☐ a brief introduction to the article,
- ☐ a summary and analysis of the key points in the article,
- ☐ a discussion on how the article supports or contradicts the concepts as presented in the textbook, and
- ☐ a summary of the article's conclusions and your own opinions.

The assignment must be in APA format and at least two pages in length (not including title and reference pages).

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

✂ Unit VIII Course Project ✂

1. Conduct an audit of the following safety management system elements at your organization, or an organization with which you are familiar and have access to the required information:

SAFETY MANAGEMENT SYSTEM ELEMENTS	ANSI/AIHA Z10 SECTIONS	COURSE TEXTBOOK CHAPTERS
1. Occupational Health and Safety Management System	3.1.1	8
2. Occupational Health and Safety Policy	3.1.2	8
3. Responsibility and Authority	3.1.3	8
4. Employee Participation	3.2	8
5. Review Process, Assessment, and Prioritization	4.1, 4.2	9
6. Risk Assessment	5.1.1	11
7. Hierarchy of Controls	5.1.2	14
8. Design Review	5.1.3	15
9. Management of Change	5.1.3	19
10. Procurement	5.1.4	20
11. Monitoring and Measurement	6.1	21
12. Incident Investigation	6.2	22
13. Audits	6.3	23
14. Corrective and Preventive Actions	6.4	23
15. Feedback to the Planning Process	6.5	23
16. Management Review	7.1, 7.2	24

Below you will find some suggested sources for the objective evidence to support your evaluation:

- ☐ *Documents:* Organizational safety manuals and instructions, safe operating procedures, and job hazard analyses
- ☐ *Records:* E-mails or letters from management to employees, safety meeting minutes, mishap logs, audit reports, OSHA citations, inspection reports, risk assessments, and training records.
- ☐ *Interviews:* Management personnel, supervisors, and employees
- ☐ *Observation:* Walk through some workplaces to observe conditions for yourself.

2. For each management system element, discuss the objective evidence you found (or were unable to find). Evaluate the effectiveness of the organization's implementation of each element against available reference sources and best practice information. Use the following five-tier evaluation scheme to rate each element:

- ☐ *World Class:* OHS performance
- ☐ *Strong:* Conforming/complete, may have minor gaps with action plans
- ☐ *Moderate:* Scattered non-conformances need to be addressed, positive trends/major elements in place
- ☐ *Significant Non-Conformances Exist:* Still needs focus
- ☐ *Major Effort Required:* Major or systemic non-conformances exist

Appropriate references include the course textbook, textbooks from other college-level courses, ANSI/AIHA Z10-2012, other published consensus standards (ANSI, ASSE, AIHA, ISO, NFPA, etc.), OSHA standards and voluntary guidelines, and articles published in professional journals. Blogs, Wikipedia, About.com, Ask.com and other unmonitored Internet resources are not considered scholarly references and should not be used. Please contact your professor if you have any questions about the appropriateness of a reference source.

3. If an element is found to be less than World Class, provide recommendations for improvement. Be sure to use appropriate scholarly reference sources to support your recommendations.
4. Conclude the audit report with a summary of the overall status of the organization's safety management system.

The Course Project must be a minimum of seven pages and a maximum of 10 pages in length, not including the title, abstract, and reference pages. A minimum of five professional references sources must be used.