

**Prince of Songkla University**

**Faculty of Engineering**

**Midterm Examination Semester 1**

**Academic Year : 2006**

**Date : August 4, 2006.**

**Time : 13:30-16:30**

**Subject : 226-307 Safety Engineering**

**Room: A401**

**Instruction:**

1. Answer all questions.
2. All materials are allowed.

ทูลจริตในการสอบ โทษชั้นต่ำ ปรับตกใน  
รายวิชานั้น และพักการเรียน 1 ภาคการศึกษา

**Questions:**

1. Identify the strategies for shaping positive safety culture at the enterprise.  
(10 points)
2. How do the element of safety management system as the following affect the safety management in industry?
  - 2.1 policy and commitment
  - 2.2 hazard identification
  - 2.3 risk assessment
  - 2.4 training, awareness and competence
  - 2.5 document and data control(15 points)
3. Is a "Zero Accidents" policy unrealistic? Why?  
(5 points)
4. Why might the commonly seen "Safety First" poster be ineffective in some instances?  
(5 points)
5. How can supervisors help increase pride of workmanship?  
(10 points)

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6. List the example of visual control to make the problems, abnormalities, or deviation from standards visible to everyone and thus corrective action can be taken immediately

(10 points)

7. What are the aims and benefits of accident investigation?

(10 points)

8. Give four examples, causes of accident and the method to eliminate/reduce these accidents in the faculty of engineering.

(10 points)

9. Analyse the causes of accident by using DOMINO THEORY and THE MULTIPLE CAUSATION THEORY in case of falling from the ladder.

(10 points)

10. What is JSA ? How can be used for accident investigation? Give a step/process of implementation.

(10 points)

11. How does the PDCA cycle improve employee awareness in factory?

(5 points)

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prepared by

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