Student ID.....

PRINCE OF SONGKLA UNIVERSITY

FACULTY OF ENGINEERING

Final Examination: Semester 1 Academic Year: 2010

Date: 14 ตุลาคม 2553 Time: 09:00 - 12:00

Subject: 225-467 Quality Improvement Room: S 817

.....

Student Name.....Group No.....

ทุจริตในการสอบ โทษขั้นต่ำปรับตกในรายวิชานั้นและพักการเรียน 1 ภาคการศึกษา

Instructions:

1. There are 35 points (35%).
2. Books are not allowed. *Only A4 with note is allowed.*
3. A calculator and a dictionary are allowed.
4. Borrowing things from other students is prohibited.

Question No.	Full Score	Score
1	5	
2	5	
3	5	
4	5	
5	5	
6	5	
7	5	
Total	**35%**	

Assistant Prof. Runchana Sinthavalai, Ph.D.

Instructor

ข้อสอบเน้นการวิเคราะห์ นักศึกษาต้องแสดงถึงการอธิบายที่ชัดเจน การวิเคราะห์อย่างเป็นระบบ การให้เหตุผลสนับสนุน และ/หรือ การแสดงตัวอย่างที่ชัดเจน โดยเกณฑ์การให้คะแนนจะพิจารณาจากประเด็นดังกล่าว

1. *(5 Points)* Construct the PDPC for yourself on -how to get the job.

2. *(5 Points)* Answer both questions;

2.1 Explain what FMEA is and how it can be useful

2.2 Give three examples of Poka-Yoke designed in the equipments or labs of Industrial Engineering

3. *(5 Points)* Answer both questions;

3.1 From these statement;

"One of Motorola's most significant contributions was to change the discussion of quality from one where quality levels were measured in percentages (parts per hundred) to a discussion of PARTS PER MILLION or even parts per billion..."

Discuss - why does the change in quality levels effect to the quality improvement?

3.2 Explain the relationship between "sigma" and "sigma level" for indicating the process quality.

4. *(5 Points)* Explain the relationship between "reducing the variation" and "quality improvement"

5. *(5 Points)* What are the benefits and risks of small lot sizes in Lean operations?

6. *(5 Points)* Answer both questions;

6.1 From your period for preparing the assignment II, discuss your major waste (from 7 wastes) and explain why

6.2 Contrast push and pull methods of moving goods and materials through production system

7. *(5 Points)* Suppose you have to brief the framework of MBNQA and explain the relationship among elements in 2-3 minutes, what will you explain?