Submission 02

Production Planning & Control

Submission Deadline: 17 Oct 2018; Detail answers are required for each question

- A mechanical engineer conducted a time study of an assembly operation with the times given. The engineer gave a performance rating of 125. The allowance factor is 20% of job time. The standard time for this operation is most nearly:
  A. 296
  B. 320
  C. 356
  D. 392

Observation	**Time**
1	219
2	335
3	403
4	308
5	312
6	315
7	312
8	308
9	305
10	310

- Explain work study & Method study
- Interpret ERP, MRP-I, MRP-II, JiT, Kanban
- An analyst has been asked to prepare an estimate of the proportion of time that an operator spends on non-value added time, with 90% CL. Based on previous experience, the analyst believes the proportion will be approximately 30%. Utilize Unit normal distribution table
  - If the analyst uses a sample size of 400, what is the max possible error?
  - What sample size would the analyst need in order to have the max error to be min $\pm 5\%$

You may take assistance from the lecture note uploaded in Github.