

# Project Management Assignment 5

by  
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# Assignment 5

- Aims
  - To understand the process of quality planning.
  - To understand the overview of QA/QC.
  - To understand the purpose of flowchart and control chart.
- Expected Outcomes
  - Students are able to identify process required to perform quality planning.
  - Students are able to differentiate between QA and QC.
  - Students are able to develop the flowchart and control chart.
- References
  - William, R.T. 2013. Project Management. Random Exports
  - Heagney, J. 2012. Fundamentals of Project Management. American Management Association.
  - Richardson and Gary, L. 2010. Project Management theory and practice. Taylor and Francis.

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Table below is 125 readings (must be coded with 6 mm) obtained in a hospital by a motion and time study analyst who took 4 readings each day for 25 days.

Subgroup number	$X_1$	$X_2$	$X_3$	$X_4$	X mean	R
1	0.35	0.40	0.32	0.37	0.36	0.08
2	0.46	0.37	0.36	0.41	0.40	0.10
3	0.34	0.40	0.34	0.36	0.36	0.06
4	0.69	0.64	0.68	0.59	0.65	0.10
5	0.38	0.34	0.44	0.40	0.39	0.10
6	0.42	0.41	0.43	0.34	0.40	0.09
7	0.44	0.41	0.41	0.46	0.43	0.05
8	0.33	0.41	0.38	0.36	0.37	0.08
9	0.48	0.44	0.47	0.45	0.46	0.04
10	0.47	0.43	0.36	0.42	0.42	0.11
11	0.38	0.41	0.38	0.38	0.39	0.03
12	0.37	0.37	0.41	0.37	0.38	0.04
13	0.40	0.38	0.47	0.35	0.40	0.12
14	0.38	0.39	0.45	0.42	0.41	0.07
15	0.50	0.42	0.43	0.45	0.45	0.08
16	0.33	0.35	0.29	0.39	0.34	0.10
17	0.41	0.40	0.29	0.34	0.36	0.12
18	0.38	0.44	0.28	0.58	0.42	0.30
19	0.35	0.41	0.37	0.38	0.38	0.06
20	0.56	0.55	0.45	0.48	0.51	0.11
21	0.38	0.40	0.45	0.37	0.40	0.08
22	0.39	0.42	0.35	0.40	0.39	0.07
23	0.42	0.39	0.39	0.36	0.39	0.06
24	0.43	0.36	0.35	0.38	0.38	0.08
25	0.39	0.38	0.43	0.44	0.41	0.06

- (a) Construct  $\bar{X}$  and R chart for preliminary data with trial control limits.
- (b) Establish a revised central line and control limits.
- (c) Compare before and after analysis with your comment.

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