Class Project – Quality Assurance

We have studied the CMMI framework and the process areas up till level 3 in the class. We have also discussed different classes of SCAMPI appraisals and the methodology to conduct a SCAMPI appraisal. This might sound exciting to you that you will actually be conducting a SCAMPI appraisal of your selected organisation in the coming weeks. The appraisal will be for process areas up to level 3.

Your task is to:

1. Plan for the appraisal, i.e.
   a. Choose an organisation and drop me an email mentioning the organisation that you are going to appraise. You should get commitment from a responsible person in the organisation that he or she will be happy to answer your queries.
   b. Study the process areas in the CMMI model up to level 3 and prepare relevant questionnaires. The questionnaires should be prepared bearing in mind that for each process area, you need to assess whether all the generic and specific goals have been achieved for the desired level. To achieve this, you need to assess whether the corresponding practices to achieve a goal are being implemented in the organisation. The state of the implementation of practices should help you in deciding whether a generic or specific goal is achieved by the organisation for a specific process area.
   c. Please submit the questionnaires as soon as you have prepared those. The deadline for this task is **Tuesday 14th May, 2013 1500hrs**.

2. The next step is to 'conduct' the appraisal for which you will visit your chosen organisation and will get the responses to your questionnaires. For example, you can conduct an interview (record the interview if possible, i.e. if the person being interviewed has no objection to it) and later on fill the questionnaire yourself.

3. As you now have the responses to your questionnaires, it is time to analyse, consolidate and report your findings. The analysis and consolidation step mainly depends upon your understanding of the CMMI model and the SCAMPI appraisal method. Please consult the provided documents for this task (CMMI book and the SCAMPI appraisal guidelines). Once you are finished with the analysis and consolidation of results, you are required to prepare a 'comprehensive' report as follows:

a. For each process area you state:
   i. Your findings,
   ii. the strengths
   iii. and the weaknesses of the organisation, and
   iv. finally, your conclusions.
b. Report the results which you have analysed and consolidated. You can use a scoring mechanism to get to the conclusion that whether a process area is being implemented or not. For example, a specific practice which is being Fully Implemented (FI) carries a score of say 4 and a practice Not Implemented (NI) is assigned a score of say zero. A process area is considered as being implemented if it carries at least a 'certain' score and so on. I would like to emphasise that the scoring mechanism is totally your choice and it is up to you to come up with such a procedure. Once you are done with the analysis, you can prepare charts or graphs to show your results in a reader-friendly manner.
c. Give the final rating of the organisation according to your appraisal. ☺
d. The deadline for report submission is **Monday 20th May, 2012 1700hrs.**

4. Prepare a 20 minutes presentation of all the activity during this project and present it during class presentation session (which will be organised during class or at some time convenient to most of you).

Now that you are rather excited about your class project and already planning to start working on it, you should bear following points in mind:

▪ The project along with the presentation is worth 15% of the absolute credit for this module.

▪ You are allowed to work in groups. I recommend that there are a maximum of two students in a group. However, under exceptional circumstances a group of three students is allowed as well. Please drop me an email if you are considering formulating a group of three students. You do not need to let me know if there are a maximum of two students in the group.

▪ Please mention clearly at the start of the report that which areas of the report a particular group member has worked on.

▪ The report is prepared using font size 12pts and line spacing 1.5.

▪ You may consult the relevant books, articles, internet, etc. whilst preparing this report. However, please do not forget to use a proper referencing system.

- Please hand over the hard copies of your final report to the CR before the deadline, who will hand those over to me at most by the deadline time.

- The presentations do not need to be submitted though and the schedule for presentations will be announced later.

- Please note that any form of plagiarism will not be tolerated and will result in zero credit for the project.

If you have any queries, you can reach me at the following email address: muzammal@bui.edu.pk.

Some of the helping material is available at the following urls:

1. CMMI ebook:
   https://dl.dropboxusercontent.com/u/46509976/students/CMMI-book.pdf

2. SCAMPI appraisal lecture slides:
   https://dl.dropboxusercontent.com/u/46509976/students/scampi-lecture.pptx

3. SCAMPI appraisal detailed guidelines:
   https://dl.dropboxusercontent.com/u/46509976/students/scampi-vision-document.pdf

Start early and Good Luck. ☺