Course name: Software Development Practice

Course outlines:

- > Software development Life-cycle (SDLC), CMMI
- > Create requirement, solution, detailed design for software product
- > Perform code review, create unit test case, write unit test code, perform unit test
- > Perform cause analysis for improvement

Training Outcomes:

After finished this course, graduate will gain experiences of a programmer. The trainee is reminded and gained the expertise of software process such as Waterfall, Spiral Models; process improvement model such as CMMI.

Duration: 2 days + 2 days for homework

Major Topics:

No.	Day	Topics	Topic objectives	Duration (h)
1	1	Software development Life- cycle	 Understand stages, output of each stage in SDLC Comprehensive roles and responsibilities in software development 	1:00
2	1	Overview CMMI – How to apply into the software development	Can understand and apply some main Process Areas from CMMI: - REQM - Requirements Management - CM - Configuration Management - VER – Verification - CAR - Causal Analysis and Resolution	0:30
3	1	Introduce software project	 Can verify software documents by checklist Understand coding standard and can apply tools to check code. Can define project task list 	1:00
4	1	Plan for home work	Understand what will be done in homeworkJoin the team in googlecode.Using Eclipse and TortoiseSVN	0:15
5	2	Workshop – review homework	 Comprehensive applying coding standard in software development Can practice the method of cross-check/peer review source code Perform Unit Test 	1:30
6	2	Workshop – CMMI applying	 To identify causes of selected outcomes and take action to improve Review the software project by CMMI's PA 	1:30

Prerequisites

- Have background about OOP
- Have knowledge about Java Web Application Programming: JSP, Servlet
- Have skill to develop a small project by Java with following:
 - + Java Script, CSS
 - + JSP, Taglib
 - + Servlet
 - + Hibernate

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