Managing Software Development Projects

Software development projects are quite different from other conventional IT projects. This 2-day workshop will focus specific skills and techniques required by practitioners in the software development field. The participants should have experience in the IT software development life cycles. Hands-on class exercises and case studies will be used to simulate real life situations. The participants will be able to apply what they learnt from the class immediately to real life software development projects.

Course Duration: 2 days

Course Format: Lectures (~50%); hands-on practice (tools and templates will be provided) (~15%); case studies and exercises (~ 35%)

Target Audience: Software development practitioners and managers, PMP

PDU Credential: 15 PDU

Key Topics:

- Project Management Overview -- A high level overview of Software Project Management , Software Development life cycles and processes

- Software Project Management Plan (SPMP) – Using IEEE 1058 as a model

- Foundations and Tools of Software Quality Processes -- Key standards and guidelines for software quality engineering; an overview of quality models (e.g. CMMI, ISO9001)

- Process Management – How to develop and tailor the software processes (using CMMI as a model)?

- Quality Assurance and Cost of Quality -- How to employ Software quality assurance (SQA)?

- Software Project Metrics --- What metrics to collect and how to use them?

- Project Monitoring and Controlling – How to track a project and keep it on course? An exercise using a web-based project management tool will be used to illustrate the skills and techniques involved.*

- Offshoring/Outsourcing Software Projects – Offshoring/outsourcing projects involving developers from other countries (e.g. India, China, and the Philippines) have become very popular nowadays. This course will tackle issues on timeliness and quality issues when managing these projects.

*The participants, using the laptop computers they bring along or provided by us, will access the tool via a web-based application. Under a simulated project environment, the participants will act as the project manager.