

Defense Contract Management Command Software Process Measurement



*The foundation for effective
software insight*



*PSM User Group Conference
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Agenda

- *DCMC's vision*
- *What is DCMC?*
- *Software Professional Development Program*
- *Mentorship training*
- *DCMC policy on software measurement*
- *PSM training*
- *PSM use in DCMC*
- *Lessons learned*
- *Summary*

DCMC's VISION STATEMENT

Provide cost effective, reliable, and consistent Contract Administration Support with qualified personnel focused on continuous improvement, risk identification, and reduction of the software lifecycle errors. Provide customer with accurate assessment of the software development processes and products throughout the acquisition lifecycle. Measure ourselves for continuous improvement and risk reduction.

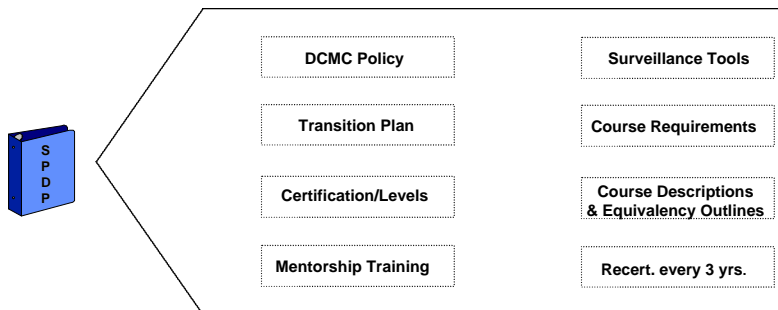
What is DCMC?

- ***Part of the Defense Logistics Agency which provides support throughout DoD***
- ***Focus is on pre/post contract award and post-delivery services***
- ***DCMC software acquisition support provided by multiple software skills working together***

Software Professional Development Program

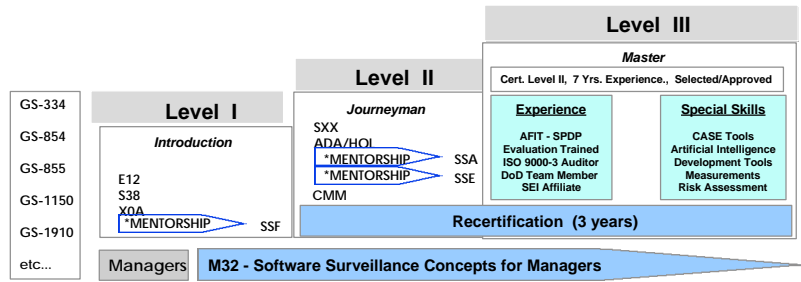
- **Identifies software technical development training needs**
- **Identifies and maintain skills needed to meet DCMC's software insight mission**
- **Provides training to maintain high level of technical competence**
- **Identifies training for DCMC Management**
- **Describes certification maintenance**

"What is in the - SPDP?"



DCMC Software Process Measurement

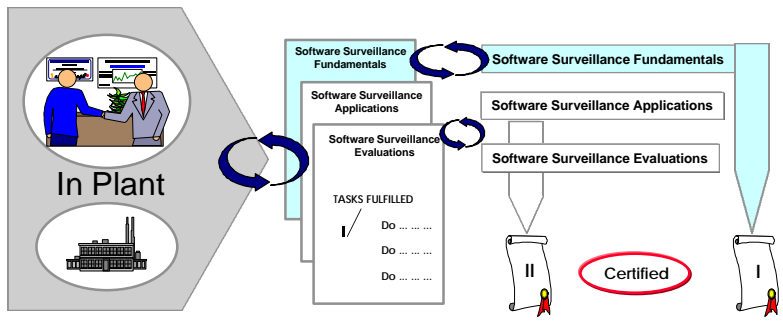
Course Requirements



Course Key:
 E12-Digital Principles & Applications S38-Microprocessor Fundamentals X0A-Introduction to Structured Programming
 SSF-Software Surveillance Fundamentals SXX-Systems Analysis & Design ADA/HOL-Ada or HOL Programming
 SSA-Software Surveillance Applications SSE-Software Surveillance Evaluations CMM-Capability Maturity Model
 *Mentor-Guided Work Experience

DCMC Software Process Measurement

Mentorship Training



DCMC policy requires a software measurement process

- ***Surveillance planning shall identify specific measures, sources of information, how it will be collected, analyzed, and reported***
- ***Software specialist shall define and implement an effective software measurement process to assist in planning, tracking, and evaluating the software programs***
- ***The software specialist shall work in a teaming environment with the PMO and the contractor to ensure the implementation of process improvement***

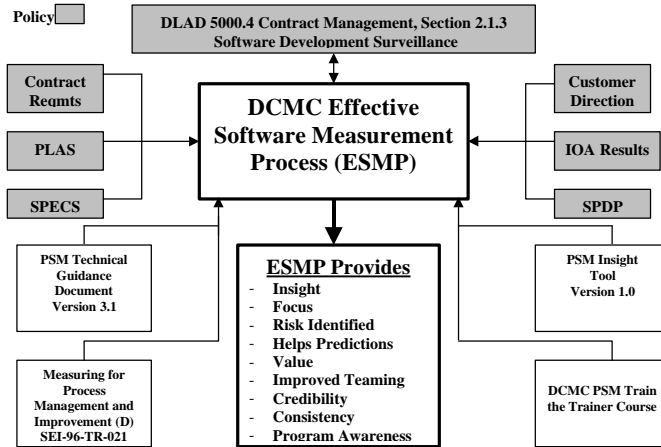
DCMC Business Plan Description

Promulgate objective of software measurement throughout the command using Practical Software Measurement (PSM) as the recommended approach.



DCMC Software Process Measurement

***Effective Software Measurement Process
Requirements and Guidance***



DCMC PSM 11

DCMC Software Process Measurement

DCMC PSM Training

- ***DCMC is one of the Transition Organizations***
- ***DCMC software personnel have attended the PSM Train-the-Trainer Course***
- ***PSM training is part of the SPDP training for level II certification***
- ***PSM training is also part of the SPDP Certification Maintenance Course***
- ***DCMC PSM course held 13-16 July - Orlando, FL
Next course 10-13 August - Los Angeles, CA***

DCMC PSM 12

DCMC Software Process Measurement

DCMC recommends using PSM

- ***Provides assistance in developing effective measurement practices within DCMC***
- ***Improves DCMC's measurement approach***
- ***Supports the IPPD philosophy***
- ***Provides additional insight into issues and processes which allows improved risk management***
- ***Provides flexibility - DCMC has field offices world wide***
- ***Provides value added communications with the customer***

DCMC PSM 13

DCMC Software Process Measurement

Lessons Learned

- ***Implementing a measurement process takes time***
- ***Training program should be established due to various skill mix***
- ***Various Contact Administration Offices (CAOs) has developed a plan to implement PSM***

DCMC PSM 14

Summary

- ***Use of PSM in DCMC is guidance - not policy***
- ***DCMC's software measurement process using the PSM philosophy will provide a basis for objective communications and informed decision making***
- ***Identifies the need for DCMC software personnel to be involved in IPPD***
- ***Provided DCMC Management and customers information related to project status***

Questions?

Call the DCMC Software Center 1.800.616.7598

or

Visit our web site @ <http://www.dcmc.hq.dla.mil>