Integrated Implementation of Advanced Maturity Practices

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Agenda

- High Maturity Implementation
- High Maturity Foundation
- Practice Relationships
- Keys to Success

High Maturity Foundation

So

You achieved Maturity Level 3

Congratulations!!!!!

And now youûre ready for all that high maturity stuff

Really??????

High Maturity Foundation

Do lower Maturity Level PAs look, feel and smell differently in a High Maturity Organization????

YOU BETCHA!!!!!!!!!!!!!!!!!!!

They serve as the foundation for ML4 and ML5 practices

High Maturity Foundation

Maturity Level 5 PAs - A Qualitative Summary

CAR ï If something is wrong, or needs to be better, get the right people together, determine the real problem, and fix it.

OID ï Try to get better ï especially in the areas that are most important. Be pro-active in looking for ways to get better in these important areas.

I'll bet you're already doing this!!!!

High Maturity Foundation

PPQA ï Are you performing trend analysis on non-compliance items?

PMC ï Are you determining the real cause of deviations from plans?

VER & VAL ï Are you performing trend analysis on issues arising from Peer Reviews?

Are you performing trend analysis and determining the real cause of problems found in T&E?

High Maturity Foundation

OPF ï How pro-active is your PI program? How do you prioritize PI initiatives? How do you know if improvements are really improvements?

MA ï What is the basis for those objectives? Do your measures really tie to the objectives? Are your operational definitions sound?

High Maturity Foundation

OPD ï Do you truly have a set of standard processes? Are the process elements well defined?

GP 3.2 ï Are you really collecting improvement information? Is it quantified?

How do you know if things are going well?

High Maturity Foundation

OPP

QPM

High Maturity Foundation

How do you establish Quality and Performance Baselines and Models without the data from QPM?

How do you establish the framework for QPM without OPP?

See High Maturity Foundation

(I vote for the chicken)

Practice Relationships

OPP SP 1.3 Establish quality and process performance objectives

- QPM SP 1.1 Establish the project's objectives
- OID SP 1.1 Collect and analyze improvement proposals
- OID SP 1.2 Identify and analyze innovations
- OID SP 1.4 Select improvements for deployment

Practice Relationships

OPP SP 1.4 Establish process-performance baselines
OPP SP 1.5 Establish process-performance models

- QPM SP 1.2 Compose the defined process
  (and most of QPM)
- OID SP 1.1 Collect and analyze improvement proposals
- OID SP 1.2 Identify and analyze innovations
- OID SP 2.3 Measure improvement effects

Practice Relationships

QPM SP 1.1 Establish the project's objectives

QPM SP 1.4 Manage project performance

QPM SP 2.3 Monitor performance of the selected subprocesses

CAR SP 1.1 Select data for analysis

Practice Relationships

QPM SP 1.2 Compose the defined process

QPM SP 1.4 Manage project performance

QPM SP 2.3 Monitor performance of the selected subprocesses

CAR SP 2.1 Implement the action proposals

CAR SP 2.2 Evaluate the effect of changes

Keys to Success

Common Misconceptions:

Processes vs Subprocesses

- Subprocess ï a defined component of a larger defined process that may be decomposed further

ML4 statistical management is at this level

Process-performance models

- The use of product and/or process measurements collected in one activity to predict the results of another activity

Example ï Defects found in a requirements Peer Review used to determine the number of defects that will be found in integration testing

Keys to Success

- Be sure of your foundation
- Keep it practical ï not academic
- Use the informative material
  - ML4 = special cause variation
  - ML5 = common cause variation
- Treat the 4 PAs as one
- Donôt be overly concerned with Project vs Org with CAR and OID activities
- Use qualified people and tools to develop process-performance models

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