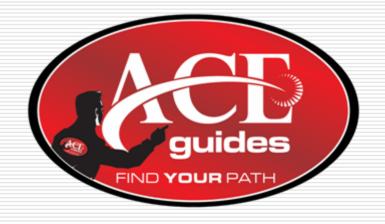
Shrinking the Elephant: If Implementing CMMI® Practices Looks Like More Effort than it's Worth, Let's Look Again

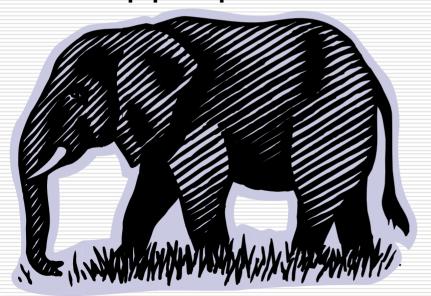
Sam Fogle

ACE Guides, LLC



Agenda

- Dilemma
- Terms & Concepts
- Impact of Interpretation
- Inappropriate Interpretation









Dilemma



Organizational Training

- OT SP 1.4 Establish and maintain training capability to address organizational training needs.*
- What types of evidence do we normally see for this practice???



^{*}From CMMI ® Second Edition

SMALLCO (1)

- 20 FTEs
- Very small main office most employees telecommute or work at customer site
- Project Alpha (10 FTE)
 - sub to large company, long term development contract.
 - Rated staged level 2 in single project SCAMPI 2 years ago (required by prime)
- Project Beta (10 FTE)
 - Maintenance support at customer site mostly bug fixes and small enhancements



SMALLCO (2)

- SMALLCO is considering going to staged level 3 for the entire company but is concerned that many PAs and practices look overwhelming
- Training is one area of concern as they have no training facilities, courses, or instructors
- They typically send people out to training whenever it is required and use mentoring to get people up to speed on how work is done at SMALLCO



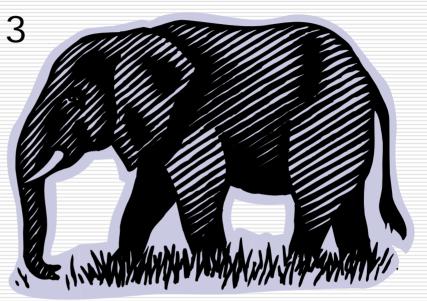
SMALLCO (3)

- They read over OT SP 1.4 and got concerned
- They brought in a well respected consultant (he has over 20 year of process experience at BIGCORP!) and asked him what they needed
- He prepared a list (It's on the board)
- The cost and effort is prohibitive for SMALLCO



SMALLCO (4)

 Is staged level 3 outside their reach?

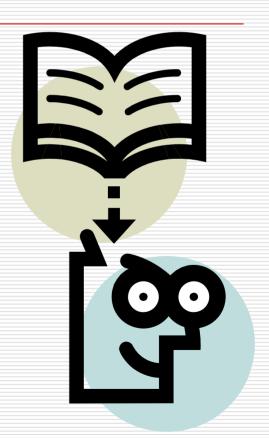


Or is their another option???





Terms & Concepts



Appraisal Terms and Concepts

- What is required and what is expected? –
 "Specific and generic goals are required model
 components; specific and generic practices are
 expected model components in that alternative
 practices could be implemented that are
 equally effective in achieving the intent of the
 associated goals."*
- A practice may occupy a page or two in the CMMI. What part of that material is "expected"?
- Can we ignore the rest???

^{*}From the SCAMPISM A, V 1.2: Method Definition Document



Appraisal Terms and Concepts (2)

Alternative Practice –

"A practice that is a substitute for one or more generic or specific practices contained in CMMI models that achieves an equivalent effect toward satisfying the generic or specific goal associated with model practices. Alternative practices are not necessarily one-for-one replacements for the generic or specific practices."*

^{*}From the SCAMPISM A, V 1.2: Method Definition Document

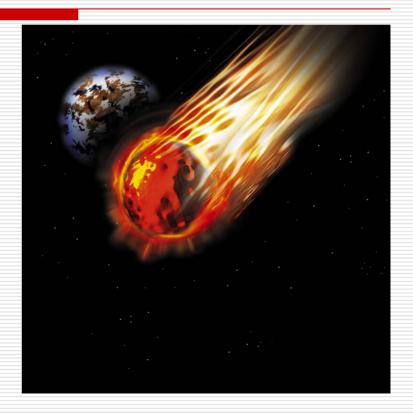


Supplier Agreement Mgmt

- SG1 Agreements with the supplier are established and maintained
 - SP 1.1 Determine the type of acquisition for each product or product component to be acquired
 - SP 1.2 Select suppliers based on an evaluation of their ability to meet the specified requirements and established criteria
 - SP 1.3 Establish and maintain formal agreements with the supplier
- Suppose we have a project where the supplier was pre-selected by the customer.
- This pre-selection of the supplier by the customer becomes an alternate practice that addresses the intent of SP 1.1 or 1.2 and allows them to satisfy the goal.



Impact of Interpretation



Validation

- Discusses establishing validation:
 - Environment
 - Procedures
 - Criteria
- SMALLCO does bug fixes
 They don't see how they
 can implement prototyping
 or do demonstrations of
 their proposed fixes.
- Is having their users participate in SCCBs (that discuss the changes) and testing appropriate validation for them???



Technical Solution

SP 1.1 Develop alternative solutions and

selection criteria

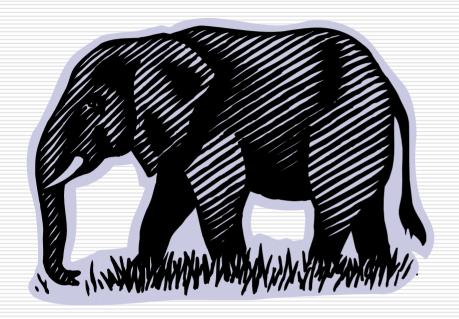
 Does SMALLCO need to do this for every bug fix?

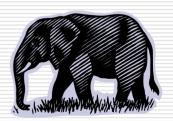
 Or is it appropriate for them to apply

these techniques only to the larger changes where requirements are being introduced or changed?



Have you seen any elephants?







Product Integration

SP 1.1 Determine the product component

integration sequence

 How can SMALLCO show a integration sequence when they only change one line in one component?



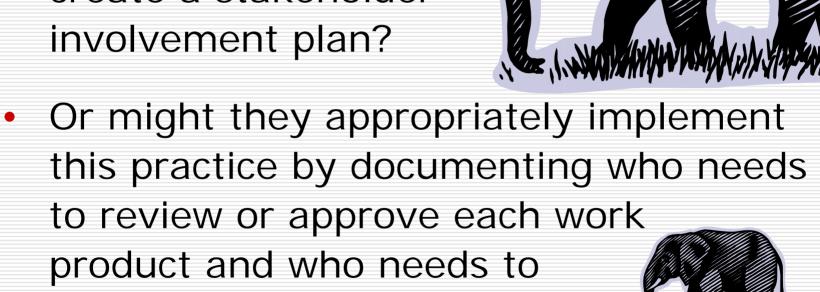
 There are times when a simple/trivial implementation is appropriate



Generic Practice 2.7

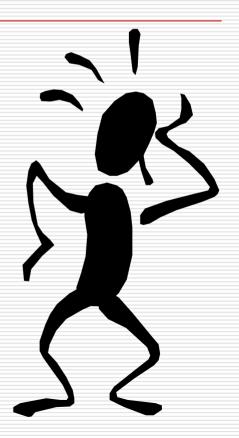
- Identify and involve relevant stakeholders
- Does SMALLCO need to create a stakeholder involvement plan?

attend which meetings?





Inappropriate Interpretation



Take Away

 So now we can all go home and put these "easier" implementations in place in our organizations. Right?

 Maybe not! In large and/or complex organizations or projects, a more robust implementation may be appropriate and necessary to satisfy



the goal.

Interpretation Suggestions

- Read every practice through a few times
- Try to answer these questions:
 - Why is this practice here?
 - What is the risk if it is absent or poorly implemented?
 - What is my organization doing now to address this risk?
 - Can I use or enhance what is done now to achieve a reasonable implementation of this or an alternative practice?
 - Or does reason dictate a more robust implementation?



Final Thoughts

- "It can't be as simple as THAT!"
 - Sometime it is
- Do what makes sense
- Appropriate
- Reasonable



Questions



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