

Staged Equivalence

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Understanding Capability Levels

| | REQM | PP | PMC | SAM | MA | PPQA | CM | OPF | OPD |
|-----|-------|-------|-------|-------|-------|-------|-----|-------|-------|
| SG1 | Sat | Sat | Sat | Sat | Sat | Sat | Sat | Sat | Sat |
| SG2 | | Unsat | Sat | Sat | Unsat | Sat | Sat | Sat | Sat |
| SG3 | | Sat | | | | | Sat | Unsat | |
| GG1 | Sat | Unsat | Sat | Sat | Unsat | Sat | Sat | Unsat | Sat |
| GG2 | Sat | Sat | Unsat | Sat | Sat | Sat | Sat | Unsat | Sat |
| GG3 | Unsat | Sat | Unsat | Unsat | Unsat | Sat | Sat | | Unsat |
| GG4 | Sat | Sat | Unsat | | | Sat | Sat | | Sat |
| GG5 | Sat | Sat | | | | Unsat | Sat | | Sat |
| CL? | | | | | | | | | |

Equivalent Staging – ML2

| Name | Abbr | ML | CL1 | CL2 | CL3 | CL4 | CL5 |
|---------------------------------------|------|----|-------------------------|-----|-----|-----|-----|
| Requirements Management | REQM | 2 | Target Profile 2 | | | | |
| Measurement and Analysis | MA | 2 | | | | | |
| Project Monitoring and Control | PMC | 2 | | | | | |
| Project Planning | PP | 2 | | | | | |
| Process and Product Quality Assurance | PPQA | 2 | | | | | |
| Supplier Agreement Management | SAM | 2 | | | | | |
| Configuration Management | CM | 2 | | | | | |

Equivalent Staging – ML3

| Name | Abbr | ML | CL1 | CL2 | CL3 | CL4 | CL5 |
|---|-----------|----|-------------------------|-----|-----|-----|-----|
| Requirements Management | REQM | 2 | Target Profile 2 | | | | |
| Project Planning | PP | 2 | | | | | |
| Project Monitoring and Control | PMC | 2 | | | | | |
| Supplier Agreement Management | SAM | 2 | | | | | |
| Measurement and Analysis | MA | 2 | | | | | |
| Process and Product Quality Assurance | PPQA | 2 | | | | | |
| Configuration Management | CM | 2 | | | | | |
| Requirements Development | RD | 3 | Target Profile 3 | | | | |
| Technical Solution | TS | 3 | | | | | |
| Product Integration | PI | 3 | | | | | |
| Verification | VER | 3 | | | | | |
| Validation | VAL | 3 | | | | | |
| Organizational Process Focus | OPF | 3 | | | | | |
| Organizational Process Definition +IPPD | OPD +IPPD | 3 | | | | | |
| Organizational Training | OT | 3 | | | | | |
| Integrated Project Management +IPPD | IPM +IPPD | 3 | | | | | |
| Risk Management | RSKM | 3 | | | | | |
| Decision Analysis and Resolution | DAR | 3 | | | | | |

Staged Equivalence - 1

| Process Mgt: | Staged at ML: | Assessed at Capability Level: | Engineering: | Staged at ML: | Assessed at Capability Level: |
|---------------------|----------------------|--------------------------------------|---------------------|----------------------|--------------------------------------|
| OPF | 3 | 4 | ReqM | 2 | 5 |
| OPD | 3 | 2 | RD | 3 | 3 |
| OT | 3 | 2 | TS | 3 | 3 |
| | | | PI | 3 | 2 |
| Project Mgt: | | | Ver | 3 | 1 |
| PP | 2 | 3 | Val | 3 | 0 |
| PMC | 2 | 4 | | | |
| SAM | 2 | 2 | Support: | | |
| IPM | 3 | 0 | CM | 2 | 3 |
| RskM | 3 | 1 | PPQA | 2 | 4 |
| IT | 3 | 2 | MA | 2 | 2 |
| ISM | 3 | 4 | DAR | 3 | 1 |
| | | | OEI | 3 | 0 |

Staged Equivalence - 2

| Process Mgt: | Staged at ML: | Assessed at Capability Level: | Engineering: | Staged at ML: | Assessed at Capability Level: |
|---------------------|----------------------|--------------------------------------|---------------------|----------------------|--------------------------------------|
| OPF | 3 | 4 | ReqM | 2 | 5 |
| OPD | 3 | 2 | RD | 3 | 3 |
| OT | 3 | 2 | TS | 3 | 3 |
| | | | PI | 3 | 2 |
| Project Mgt: | | | Ver | 3 | 1 |
| PP | 2 | 3 | Val | 3 | 0 |
| PMC | 2 | 4 | | | |
| SAM | 2 | 2 | Support: | | |
| IPM | 3 | 0 | CM | 2 | 3 |
| RskM | 3 | 1 | PPQA | 2 | 4 |
| IT | 3 | 2 | MA | 2 | 1 |
| ISM | 3 | 4 | DAR | 3 | 1 |
| | | | OEI | 3 | 0 |

Staged Equivalence - 3

| Process Mgt: | Staged at ML: | Assessed at Capability Level: | Engineering: | Staged at ML: | Assessed at Capability Level: |
|---------------------|----------------------|--------------------------------------|---------------------|----------------------|--------------------------------------|
| OPF | 3 | 4 | RM | 2 | 5 |
| OPD | 3 | 3 | RD | 3 | 3 |
| OT | 3 | 3 | TS | 3 | 3 |
| | | | PI | 3 | 4 |
| Project Mgt: | | | Ver | 3 | 3 |
| PP | 2 | 3 | Val | 3 | 3 |
| PMC | 2 | 4 | | | |
| SAM | 2 | 2 | Support: | | |
| IPM | 3 | 3 | CM | 2 | 3 |
| RskM | 3 | 3 | PPQA | 2 | 4 |
| IT | 3 | 4 | MA | 2 | 3 |
| ISM | 3 | 3 | DAR | 3 | 3 |
| | | | OEI | 3 | 3 |

Staged Equivalence - 4

| Process Mgt: | Staged at ML: | Assessed at Capability Level: | Engineering: | Staged at ML: | Assessed at Capability Level: |
|---------------------|----------------------|--------------------------------------|---------------------|----------------------|--------------------------------------|
| OPF | 3 | 3 | RM | 2 | 3 |
| OPD | 3 | 3 | RD | 3 | 3 |
| OT | 3 | 3 | TS | 3 | 3 |
| | | | PI | 3 | 3 |
| Project Mgt: | | | Ver | 3 | 4 |
| PP | 2 | 3 | Val | 3 | 4 |
| PMC | 2 | 3 | | | |
| SAM | 2 | 3 | | | |
| IPM | 3 | 3 | | | |
| RskM | 3 | 4 | | | |
| IT | 3 | 3 | | | |
| ISM | 3 | 3 | | | |
| | | | Support: | | |
| | | | CM | 2 | 3 |
| | | | PPQA | 2 | 4 |
| | | | MA | 2 | 3 |
| | | | DAR | 3 | 3 |
| | | | OEI | 3 | 3 |

Staged Equivalence - 5

| Process Mgt: | Staged at ML: | Assessed at Capability Level: | Engineering: | Staged at ML: | Assessed at Capability Level: |
|---------------------|----------------------|--------------------------------------|---------------------|----------------------|--------------------------------------|
| OPF | 3 | 0 | RM | 2 | 2 |
| OPD | 3 | 0 | RD | 3 | 0 |
| OT | 3 | 0 | TS | 3 | 0 |
| | | | PI | 3 | 0 |
| Project Mgt: | | | Ver | 3 | 0 |
| PP | 2 | 2 | Val | 3 | 0 |
| PMC | 2 | 2 | | | |
| SAM | 2 | 2 | | | |
| IPM | 3 | 0 | Support: | | |
| RskM | 3 | 0 | CM | 2 | 2 |
| IT | 3 | 0 | PPQA | 2 | 2 |
| ISM | 3 | 0 | MA | 2 | 2 |
| | | | DAR | 3 | 0 |
| | | | OEI | 3 | 0 |

Staged Equivalence - 6

| Process Mgt: | Staged at ML: | Assessed at Capability Level: | Engineering: | Staged at ML: | Assessed at Capability Level: |
|---------------------|----------------------|--------------------------------------|---------------------|----------------------|--------------------------------------|
| OPF | 3 | 2 | RM | 2 | 2 |
| OPD | 3 | 1 | RD | 3 | 1 |
| OT | 3 | 0 | TS | 3 | 1 |
| | | | PI | 3 | 1 |
| Project Mgt: | | | Ver | 3 | 2 |
| PP | 2 | 2 | Val | 3 | 2 |
| PMC | 2 | 2 | | | |
| SAM | 2 | 2 | | | |
| IPM | 3 | 0 | Support: | | |
| RskM | 3 | 1 | CM | 2 | 2 |
| IT | 3 | 0 | PPQA | 2 | 2 |
| ISM | 3 | 0 | MA | 2 | 2 |
| | | | DAR | 3 | 0 |
| | | | OEI | 3 | 0 |

Agenda

- Required/Expected/Informative
- Mapping Practices to Goals
- Base/Advanced Practices
- One Model – Two Representations
 - Equivalent Staging
- **Using the “Constagedeous” Approach**

Using the Constagedeous Approach

- **Staged Representation**
 - Management and customers love it: 1 simple number
 - Organizational Change Model
- **Continuous Representation**
 - Different organizations have different needs/pain
 - Finer level of planning and tracking improvements
 - There are 11 process areas at maturity level 3!
- **Hybrid Approach**
 - Use Staged to establish long range goal
 - Used Continuous to plan, execute, and track

Maturity Level 2 Example

| | Staged at Maturity Level | 1/1/06 Mini Appraisal | 1Q06 Plan | 2Q06 Plan Act | 3Q06 Plan | 4Q06 Plan Act |
|---------------------|--------------------------|-----------------------|-----------|---------------|-----------|---------------|
| Project Mgt: | | | | | | |
| PP | 2 | 2 | 2 | 2 | 2 | 2 |
| PMC | 2 | 1 | 1 | 2 | 2 | 2 |
| SAM | 2 | 0 | 1 | 1 | 2 | 2 |
| Engineering: | | | | | | |
| REQM | 2 | 1 | 2 | 2 | 2 | 2 |
| Support: | | | | | | |
| CM | 2 | 2 | 2 | 2 | 2 | 2 |
| PPQA | 2 | 2 | 2 | 2 | 2 | 2 |
| MA | 2 | 0 | 0 | 1 | 1 | 2 |

Maturity Level 3 Example

| | Staged at Maturity Level | 1/1/06 Mini Appraisal | 1Q06 Plan | 2Q06 Plan Act | 3Q06 Plan | 4Q06 Plan Act | 1Q07 Plan | 2Q07 Plan Act | 3Q07 Plan | 4Q07 Plan Act | |
|--------------------|--------------------------|-----------------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|--|
| Process Mgt | | | | | | | | | | | |
| OPF | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | |
| OPD | 3 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | |
| OT | 3 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | |
| Project Mgt | | | | | | | | | | | |
| PP | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | |
| PMC | 2 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | |
| SAM | 2 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | |
| IPM | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | |
| RSKM | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | |
| ISM | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | |
| Engineering | | | | | | | | | | | |
| REQM | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | |
| RD | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | |
| TS | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | |
| PI | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | |
| VER | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | |
| VAL | 3 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | |
| Support: | | | | | | | | | | | |
| CM | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | |
| PPQA | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | |
| MA | 2 | 0 | 0 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | |
| DAR | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | |

Questions?

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