

CMMI® V3.0

Quick Reference Guide

A compilation of diagrams and information to provide a quick reference aid for students and practitioners working with the Capability Maturity Model V3.0).



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Whilst the on-line model viewer and companion model PDF are the definitive resources for all CMMI model information, it is sometimes helpful to have some of the key aspects of the model distilled down into a handy, accessible form. This document is intended to fulfil that purpose by collecting together some of the most useful and informative of the model content into a small pocket guide.

For further information about CMMI, Advance notice of our upcoming courses and webinars please register on our website:

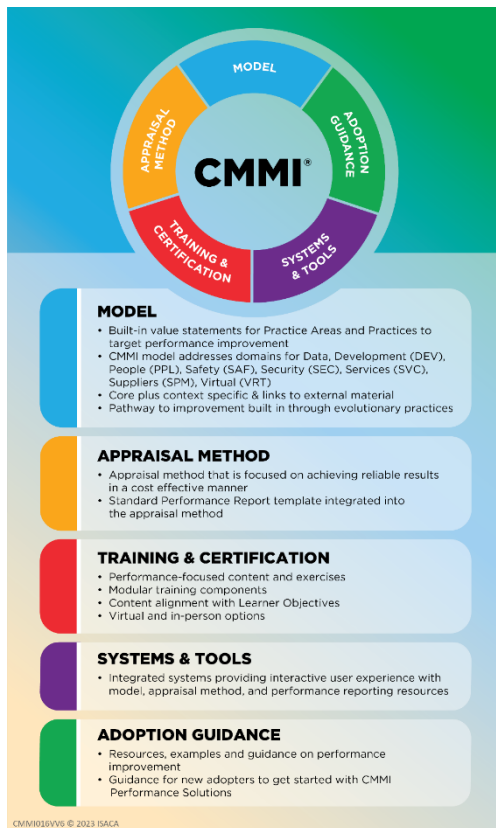
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The CMMI Performance Solutions Ecosystem

CMMI is not just the model. There are five separate components that collectively form the CMMI Performance Solutions Ecosystem:



CMMI Categories

Categories are defined in the CMMI Glossary as:

“...logical groups or types of views of related Capability Areas that address common problems encountered by businesses when producing or delivering solutions.”

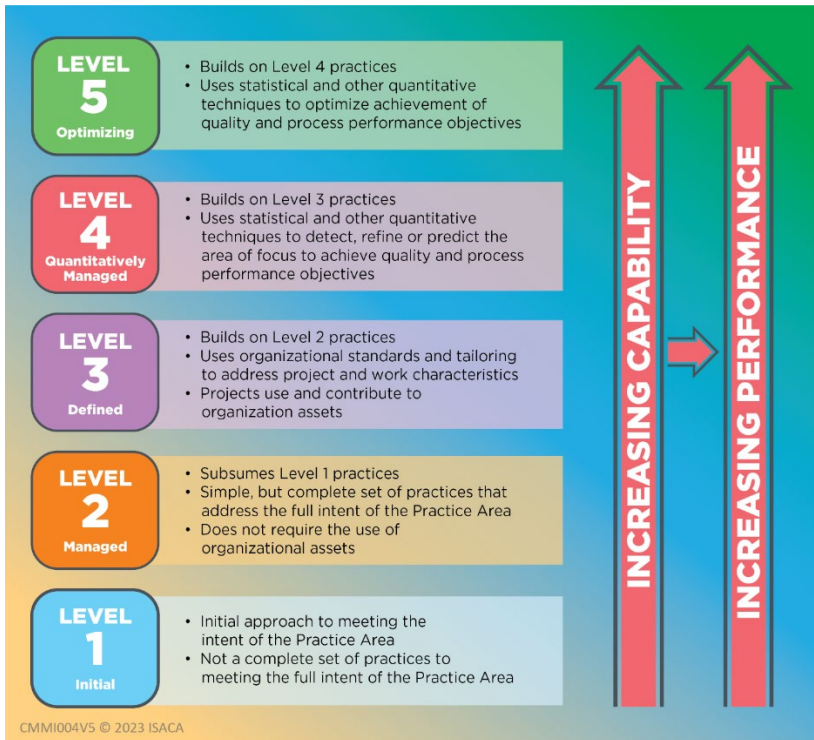


Category/Capability Area/Process Area Map



CMMI Evolutionary Levels

This diagram illustrates the key characteristics of the 5 different evolutionary levels that are defined within CMMI and illustrates how as the level increases, so too does the level of capability of the organization and the level of performance that can be expected of it.



Practice Areas and Maximum Practice Groups – Core PAs

This table shows the maximum practice group level for all 17 of the ‘Core’ Practice Areas. The ‘Core’ areas apply across all of the CMMI domains, so it does not matter if you are interested in the development domain or the services domain – these practice areas are applicable to all.

	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
 Causal Analysis & Resolution	1	2	3	4	5
 Configuration Management	1	2			
 Decision Analysis & Resolution	1	2	3		
 Estimating	1	2	3		
 Governance	1	2	3	4	
 Implementation Infrastructure	1	2	3	4	
 Monitor & Control	1	2	3		
 Organizational Training	1	2	3		
 Peer Reviews	1	2	3		
 Planning	1	2	3	4	
 Process Asset Development	1	2	3		
 Process Management	1	2	3	4	
 Process Quality Assurance	1	2	3		
 Managing Performance & Measurement	1	2	3	4	5
 Requirements Development & Management	1	2	3		
 Risk & Opportunity Management	1	2	3		
 Verification & Validation	1	2	3		

CORE

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Practice Areas and Maximum Practice Groups – Specialist Domain PAs

This table is similar to the previous one but shows the maximum practice group level for the 8 specialist interest domains.

	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	
Data Management	1	2	3		DATA
Data Quality	1	2	3		
Product Integration	1	2	3		DEVELOPMENT DEV
Technical Solution	1	2	3		
Workforce Empowerment	1	2	3		PEOPLE PPL
Enabling Safety	1	2	3		SAFETY SAF
Enabling Security	1	2	3		SECURITY SEC
Managing Security Threats & Vulnerabilities	1	2	3	4	
Continuity	1	2	3		SERVICES SVC
Incident Resolution & Prevention	1	2	3		
Service Delivery Management	1	2	3		
Strategic Service Management	1	2	3		
Supplier Agreement Management	1	2	3	4	SUPPLIERS SPM
Enabling Virtual Work	1	2	3		VIRTUAL VRT

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The 5 Primary Model Components

Component	Description
 View	<p>Selection of a set of model components important to and selected by the end user or predefined by ISACA based on customer adoption and feedback analysis, such as:</p> <p>Predefined examples:</p> <ul style="list-style-type: none"> • CMMI Development • CMMI Services • CMMI Data • CMMI Managing Security and Safety Capability Area • CMMI Planning and Managing Work Capability Area <p>End user selected examples:</p> <ul style="list-style-type: none"> • Combined CMMI-DEV and CMMI-SVC • Any other combination of Practice Areas, Capability Areas, or Practice Groups
 Practice Area	<p>A collection of similar practices that together achieve the defined intent, value, and required information described in that Practice Area</p>
 Practice Group	<p>Organizing structure (e.g., evolutionary level) for practices within a Practice Area to:</p> <ul style="list-style-type: none"> • Aid understanding and adoption • Provide a path for performance improvement

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Practice

A practice consists of two parts:

a) Required Information:

Information necessary to understand the full intent and value of the practice, which includes the practice statement, the value statement, and all the additional required information between it and the explanatory information in the practice. (Note that additional required information may not be present in every practice.)

b) Explanatory Information:

Remaining parts of the practice, including example activities and work products, which are important and useful to better understand the meaning and intent of the required information (including the practice statement, value, and additional required information). The explanatory information cannot be ignored, as it is needed to correctly understand the practice. Explanatory information is a subset of the informative material described below.

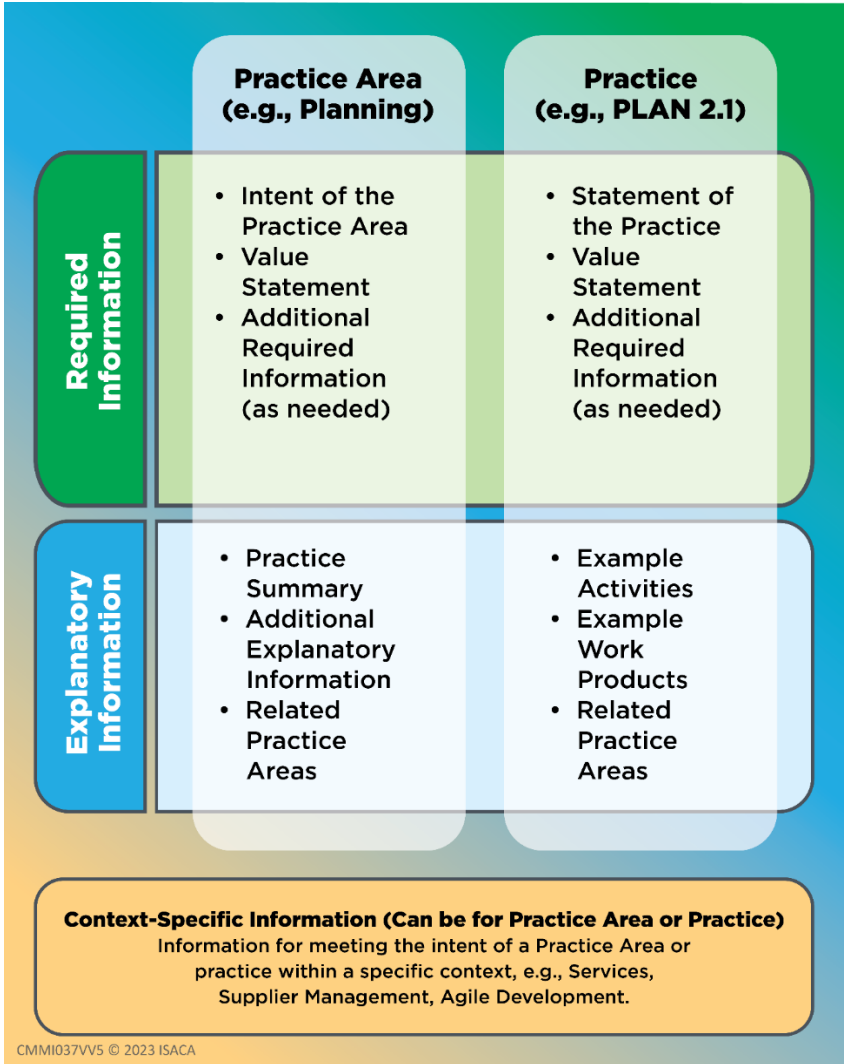


Informative Material

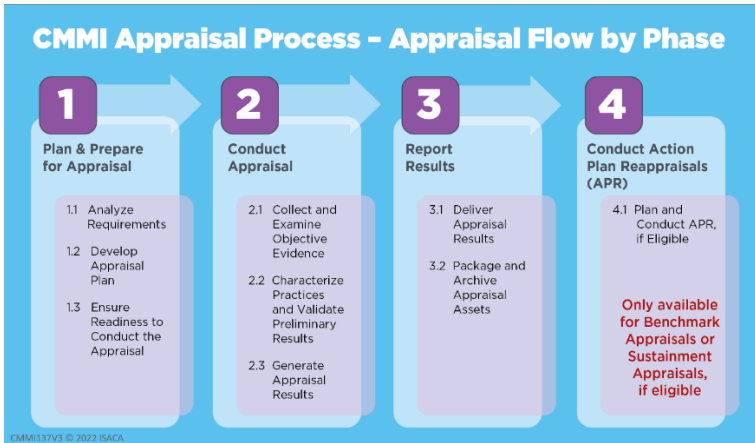
Includes everything else in the model except the required information in the practices. As such, explanatory information in practices is part of the informative material. Informative material includes the overview and the appendices, e.g., glossary, references. External links can be added to the informative material. These are links to external assets such as:

- Additional informative material
- Adoption guidance
- Adoption examples
- Transition guidance from one model or standard to others
- Templates
- Training materials

Like the practice explanatory information, informative material must not be ignored, as it is needed to correctly understand and adopt the model.



CMMI Appraisal Process Overview



CMMI Appraisal Organizational Units

