

CMMISM (SE/SW/PPD/SS) Process Evaluation Checklist

Level	Process Area	Specific Goal	Specific Practice	Concept	Detailed	Modular	Formatted	Usable	Evidence	Total		
1 - Initial	Requirements Management	Manage Requirements	Obtain an Understanding of Requirements	1	2	4	8	16	32	100%		
			Obtain Commitment to Requirements	1	2	4	8	16	32	100%		
2 - Managed	Requirements Management	Manage Requirements	Manage Requirements Changes	1	2	4	8	16	32	100%		
			Maintain Bidirectional Traceability of Requirements	1	2	4	8	16	32	100%		
			Identify Inconsistencies Between Project Work and Requirements	1	2	4	8	16	32	100%		
			Project Planning	Establish Estimates	Estimate the Scope of the Project	1	2	4	8	16	32	100%
					Establish Estimates of Work Product and Task Attributes	1	2	4	8	16	32	100%
					Define Project Life Cycle	1	2	4	8	16	32	100%
					Determine Estimates of Effort and Cost	1	2	4	8	16	32	100%
					Establish the Budget and Schedule	1	2	4	8	16	32	100%
					Identify Project Risks	1	2	4	8	16	32	100%
			Project Planning	Develop a Project Plan	Plan for Data Management	1	2	4	8	16	32	100%
					Plan for Project Resources	1	2	4	8	16	32	100%
					Plan for Needed Knowledge and Skills	1	2	4	8	16	32	100%
					Plan Stakeholder Involvement	1	2	4	8	16	32	100%
					Establish the Project Plan	1	2	4	8	16	32	100%
					Obtain Commitment to the Plan	1	2	4	8	16	32	100%
			Project Monitoring and Control	Monitor Project Against Plan	Review Plans that Affect the Project	1	2	4	8	16	32	100%
					Reconcile Work and Resource Levels	1	2	4	8	16	32	100%
					Obtain Plan Commitment	1	2	4	8	16	32	100%
					Monitor Project Planning Parameters	1	2	4	8	16	32	100%
					Monitor Commitments	1	2	4	8	16	32	100%
Monitor Project Risks	1	2			4	8	16	32	100%			
Project Monitoring and Control	Monitor Project Against Plan	Monitor Data Management	1	2	4	8	16	32	100%			
		Monitor Stakeholder Involvement	1	2	4	8	16	32	100%			
		Conduct Progress Reviews	1	2	4	8	16	32	100%			
		Conduct Milestone Reviews	1	2	4	8	16	32	100%			
		Manage Corrective Action to Closure	1	2	4	8	16	32	100%			
		Analyze Issues	1	2	4	8	16	32	100%			
Supplier Agreement Management	Establish Supplier Agreements	Take Correction Action	1	2	4	8	16	32	100%			
		Manage Corrective Action	1	2	4	8	16	32	100%			
		Determine Acquisition Type	1	2	4	8	16	32	100%			
	Satisfy Supplier Agreements	Select Suppliers	1	2	4	8	16	32	100%			
		Establish Supplier Agreements	1	2	4	8	16	32	100%			
		Review CO/TS Products	1	2	4	8	16	32	100%			
Measurement and Analysis	Align Measurement and Analysis Activities	Execute the Supplier Agreement	1	2	4	8	16	32	100%			
		Accept the Acquired Product	1	2	4	8	16	32	100%			
		Transition Products	1	2	4	8	16	32	100%			
	Provide Measurement Results	Establish Measurement Objectives	1	2	4	8	16	32	100%			
		Specify Measures	1	2	4	8	16	32	100%			
		Specify Data Collection and Storage Procedures	1	2	4	8	16	32	100%			
Process and Product Quality Assurance	Objectively Evaluate Processes	Specify Analysis Procedures	1	2	4	8	16	32	100%			
		Collect Measurement Data	1	2	4	8	16	32	100%			
		Analyze Measurement Data	1	2	4	8	16	32	100%			
	Provide Objective Insight	Store Data and Results	1	2	4	8	16	32	100%			
		Communicate Results	1	2	4	8	16	32	100%			
		Objectively Evaluate Work Products and Services	1	2	4	8	16	32	100%			
Configuration Management	Establish Baselines	Communicate and Ensure Resolution of Noncompliance Issues	1	2	4	8	16	32	100%			
		Establish Records	1	2	4	8	16	32	100%			
		Identify Configuration Items	1	2	4	8	16	32	100%			
	Track and Control Changes	Establish a Configuration Management System	1	2	4	8	16	32	100%			
		Create or Release Baselines	1	2	4	8	16	32	100%			
		Track Change Requests	1	2	4	8	16	32	100%			
Establish Integrity	Control Configuration Items	1	2	4	8	16	32	100%				
	Establish Configuration Management Records	1	2	4	8	16	32	100%				
	Perform Configuration Audits	1	2	4	8	16	32	100%				
CMMI Level 2 Score				100%	100%	100%	100%	100%	100%	100%		
2 - Managed	Requirements Development	Develop Customer Requirements	Collect Stakeholder Needs	1	2	4	8	16	32	100%		
			Elicit Needs	1	2	4	8	16	32	100%		
			Develop the Customer Requirements	1	2	4	8	16	32	100%		
		Develop Product Requirements	Establish Product and Product-Component Requirements	1	2	4	8	16	32	100%		
			Allocate Product Component Requirements	1	2	4	8	16	32	100%		
			Identify Interface Requirements	1	2	4	8	16	32	100%		
		Analyze and Validate Requirements	Establish Operational Concepts and Scenarios	1	2	4	8	16	32	100%		
			Establish a Definition of Required Functionality	1	2	4	8	16	32	100%		
			Analyze Requirements	1	2	4	8	16	32	100%		
			Analyze Requirements to Achieve Balance	1	2	4	8	16	32	100%		
	Technical Solution	Select Product-Component Solutions	Validate Requirements	1	2	4	8	16	32	100%		
			Validate Requirements with Comprehensive Methods	1	2	4	8	16	32	100%		
			Develop Alternative Solutions and Selection Criteria	1	2	4	8	16	32	100%		
		Develop the Design	Develop Detailed Alternative Solutions and Selection Criteria	1	2	4	8	16	32	100%		
			Evolve Operational Concepts and Scenarios	1	2	4	8	16	32	100%		
			Select Product-Component Solutions	1	2	4	8	16	32	100%		
			Design the Product or Product Component	1	2	4	8	16	32	100%		
	Implement the Product Design	Establish a Technical Data Package	1	2	4	8	16	32	100%			
		Establish Interface Descriptions	1	2	4	8	16	32	100%			
		Design Interfaces Using Criteria	1	2	4	8	16	32	100%			
Product Integration	Prepare for Product Integration	Perform Make, Buy, or Reuse Analyses	1	2	4	8	16	32	100%			
		Implement the Design	1	2	4	8	16	32	100%			
		Develop Product Support Documentation	1	2	4	8	16	32	100%			
	Ensure Interface Compatibility	Determine Integration Sequence	1	2	4	8	16	32	100%			
		Establish the Product Integration Environment	1	2	4	8	16	32	100%			
		Establish Product Integration Procedures and Criteria	1	2	4	8	16	32	100%			
Verification	Prepare for Verification	Review Interface Descriptions for Completeness	1	2	4	8	16	32	100%			
		Manage Interfaces	1	2	4	8	16	32	100%			
		Confirm Readiness of Product Components for Integration	1	2	4	8	16	32	100%			
	Perform Peer Reviews	Assemble Product Components	1	2	4	8	16	32	100%			
		Evaluate Assembled Product Components	1	2	4	8	16	32	100%			
		Package and Deliver the Product or Product Component	1	2	4	8	16	32	100%			
Verify Selected Work Products	Prepare for Verification	Select Work Products for Verification	1	2	4	8	16	32	100%			
		Establish the Verification Environment	1	2	4	8	16	32	100%			
	Perform Peer Reviews	Establish Verification Procedures and Criteria	1	2	4	8	16	32	100%			
		Prepare for Peer Reviews	1	2	4	8	16	32	100%			
Prepare for Validation	Perform Peer Reviews	Conduct Peer Reviews	1	2	4	8	16	32	100%			
		Analyze Peer Review Data	1	2	4	8	16	32	100%			
Prepare for Validation	Perform Peer Reviews	Perform Verification	1	2	4	8	16	32	100%			
		Analyze Verification Results and Identify Corrective Action	1	2	4	8	16	32	100%			
Prepare for Validation	Perform Peer Reviews	Select Products for Validation	1	2	4	8	16	32	100%			
		Establish the Validation Environment	1	2	4	8	16	32	100%			

3 - Defined	Validation	Validation	Establish Validation Procedures and Criteria	1	2	4	8	16	32	100%	
		Validate Product or Product	Perform Validation	1	2	4	8	16	32	100%	
			Analyze Validation Results	1	2	4	8	16	32	100%	
	Organizational Process Focus	Determine Process-Improvement Opportunities	Establish Organizational Process Needs	1	2	4	8	16	32	100%	
			Appraise the Organization's Processes	1	2	4	8	16	32	100%	
			Identify the Organization's Process Improvements	1	2	4	8	16	32	100%	
		Plan and Implement Process-Improvement Activities	Establish Process Action Plans	1	2	4	8	16	32	100%	
			Implement Process Action Plans	1	2	4	8	16	32	100%	
			Deploy Organizational Process Assets	1	2	4	8	16	32	100%	
			Incorporate Process-Related Experiences into the Organizational Process	1	2	4	8	16	32	100%	
	Organizational Process Definition	Establish Organizational Process Assets	Establish Standard Processes	1	2	4	8	16	32	100%	
			Establish Life-Cycle Model Descriptions	1	2	4	8	16	32	100%	
			Establish Tailoring Criteria and Guidelines	1	2	4	8	16	32	100%	
			Establish the Organization's Measurement Repository	1	2	4	8	16	32	100%	
			Establish the Organization's Process Asset Library	1	2	4	8	16	32	100%	
	Organizational Training	Establish an Organizational Training Capability	Establish the Strategic Training Needs	1	2	4	8	16	32	100%	
			Determine Which Training Needs Are the Responsibility of Organization	1	2	4	8	16	32	100%	
			Establish an Organizational Training Tactical Plan	1	2	4	8	16	32	100%	
			Establish Training Capability	1	2	4	8	16	32	100%	
		Provide Necessary Training	Deliver Training	1	2	4	8	16	32	100%	
			Establish Training Records	1	2	4	8	16	32	100%	
			Assess Training Effectiveness	1	2	4	8	16	32	100%	
	Integrated Project Management for IPPD	Use the Project's Defined Process	Establish the Project's Defined Process	1	2	4	8	16	32	100%	
			Use Organizational Process Assets for Planning Project Activities	1	2	4	8	16	32	100%	
			Integrate Plans	1	2	4	8	16	32	100%	
		Coordinate and Collaborate with Relevant	Manage the Project Using the Integrated Plans	1	2	4	8	16	32	100%	
			Contribute to the Organizational Process Assets	1	2	4	8	16	32	100%	
			Manage Stakeholder Involvement	1	2	4	8	16	32	100%	
			Manage Dependencies	1	2	4	8	16	32	100%	
			Resolve Coordination Issues	1	2	4	8	16	32	100%	
			Use the Project's Shared Vision for	Define Project's Shared-Vision Context	1	2	4	8	16	32	100%
				Establish the Project's Shared Vision	1	2	4	8	16	32	100%
	Organize Integrated Teams for IPPD	Determine Integrated Team Structure for the Project	1	2	4	8	16	32	100%		
		Develop Preliminary Distribution of Requirements to Integrated Teams	1	2	4	8	16	32	100%		
		Establish Integrated Teams	1	2	4	8	16	32	100%		
	Risk Management	Prepare for Risk Management	Determine Risk Sources and Categories	1	2	4	8	16	32	100%	
			Define Risk Parameters	1	2	4	8	16	32	100%	
			Establish a Risk Management Strategy	1	2	4	8	16	32	100%	
		Identify and Analyze Risks	Identify Risks	1	2	4	8	16	32	100%	
			Evaluate, Categorize, and Prioritize Risks	1	2	4	8	16	32	100%	
	Mitigate Risks	Develop Risk Mitigation Plans	1	2	4	8	16	32	100%		
		Implement Risk Mitigation Plans	1	2	4	8	16	32	100%		
	Integrated Teaming	Establish Team Composition	Identify Team Tasks	1	2	4	8	16	32	100%	
			Identify Needed Knowledge and Skills	1	2	4	8	16	32	100%	
			Assign Appropriate Team Members	1	2	4	8	16	32	100%	
		Govern Team Operation	Establish a Shared Vision	1	2	4	8	16	32	100%	
			Establish a Team Charter	1	2	4	8	16	32	100%	
Define Roles and Responsibilities			1	2	4	8	16	32	100%		
Establish Operating Procedures			1	2	4	8	16	32	100%		
Integrated Supplier Management	Analyze and Select Sources of Products	Collaborate Among Interfacing Teams	1	2	4	8	16	32	100%		
		Analyze Potential Sources of Products	1	2	4	8	16	32	100%		
	Coordinate Work with Suppliers	Evaluate and Determine Sources of Products	1	2	4	8	16	32	100%		
		Monitor Selected Supplier Work Products	1	2	4	8	16	32	100%		
		Evaluate Selected Supplier Work Products	1	2	4	8	16	32	100%		
Decision Analysis and Resolution	Evaluate Alternatives	Revise the Supplier Agreement or Relationship	1	2	4	8	16	32	100%		
		Establish Guidelines for Decision Analysis	1	2	4	8	16	32	100%		
		Establish Evaluation Criteria	1	2	4	8	16	32	100%		
		Identify Alternative Solutions	1	2	4	8	16	32	100%		
		Select Evaluation Methods	1	2	4	8	16	32	100%		
		Evaluate Alternatives	1	2	4	8	16	32	100%		
Organizational Environment for Integration	Provide IPPD Infrastructure	Select Solutions	1	2	4	8	16	32	100%		
		Establish the Organization's Shared Vision	1	2	4	8	16	32	100%		
		Establish an Integrated Work Environment	1	2	4	8	16	32	100%		
	Manage People for Integration	Identify IPPD-Unique Skill Requirements	1	2	4	8	16	32	100%		
		Establish Leadership Mechanisms	1	2	4	8	16	32	100%		
			Establish Incentives for Integration	1	2	4	8	16	32	100%	
			Establish Mechanisms to Balance Team and Home Organization Responsibility	1	2	4	8	16	32	100%	
CMMI Level 3 Score				100%	100%	100%	100%	100%	100%	100%	
4 - Quantitatively Managed	Organizational Process Performance	Establish Performance Baselines and Models	Select Processes	1	2	4	8	16	32	100%	
			Establish Process Performance Measures	1	2	4	8	16	32	100%	
			Establish Quality and Process-Performance Objectives	1	2	4	8	16	32	100%	
			Establish Process Performance Baselines	1	2	4	8	16	32	100%	
			Establish Process Performance Models	1	2	4	8	16	32	100%	
	Quantitative Project Management	Quantitatively Manage the Project	Establish the Project's Objectives	1	2	4	8	16	32	100%	
			Compose the Defined Process	1	2	4	8	16	32	100%	
		Statistically Manage Subprocess Performance	Select the Subprocesses that Will Be Statistically Managed	1	2	4	8	16	32	100%	
			Manage Project Performance	1	2	4	8	16	32	100%	
	Organizational Innovation and Deployment	Select Improvements	Select Measures and Analytic Techniques	1	2	4	8	16	32	100%	
			Apply Statistical Methods to Understand Variation	1	2	4	8	16	32	100%	
			Monitor Performance of the Selected Subprocesses	1	2	4	8	16	32	100%	
		Deploy Improvements	Record Statistical Management Data	1	2	4	8	16	32	100%	
			Establish the Project's Objectives	1	2	4	8	16	32	100%	
CMMI Level 4 Score				100%	100%	100%	100%	100%	100%		
5 - Optimizing	Organizational Innovation and Deployment	Select Improvements	Collect and Analyze Improvement Proposals	1	2	4	8	16	32	100%	
			Identify and Analyze Innovations	1	2	4	8	16	32	100%	
			Pilot Improvements	1	2	4	8	16	32	100%	
		Deploy Improvements	Select Improvements for Deployment	1	2	4	8	16	32	100%	
			Plan the Deployment	1	2	4	8	16	32	100%	
	Causal Analysis and Resolution	Determine Causes of Defects	Manage the Deployment	1	2	4	8	16	32	100%	
			Measure Improvement Effects	1	2	4	8	16	32	100%	
			Select Defect Data for Analysis	1	2	4	8	16	32	100%	
		Address Causes of Defects	Analyze Causes	1	2	4	8	16	32	100%	
			Implement the Action Proposals	1	2	4	8	16	32	100%	
			Evaluate the Effect of Changes	1	2	4	8	16	32	100%	
			Record Data	1	2	4	8	16	32	100%	
CMMI Level 5 Score				100%	100%	100%	100%	100%	100%	100%	
CMMI Level 2, 3, 4, & 5 Score				100%	100%	100%	100%	100%	100%	100%	