CMMIsm V1.1 (SE/SW/IPPD) Work Breakdown Structure (WBS)

1.0	CM	MI (Po	licy—24, 1	Procedure-	–186, Work	Product—462)		
	1.1	Matur	Maturity Level 1—Initial (Policy—0, Procedure—0, Work Product—0)					
	1.2	Matur	ity Level	vel 2—Managed (Policy—7, Procedure—56, Work Product—138)				
		1.2.1	Policy (7)				
			1.2.1.1	Requireme	ents Managem	nent		
			1.2.1.2	Project Pla	nning			
			1.2.1.3	Project Mo	onitoring and	Control		
			1.2.1.4	Supplier A	greement Ma	nagement		
			1.2.1.5	Measurem	ent and Analy	ysis		
			1.2.1.6	Process an	d Product Qu	ality Assurance		
			1.2.1.7	Configura	tion Managen	nent		
		1.2.2	Procedu	re (56)				
			1.2.2.1	Requirem	ents Manage	ement (Procedu	re—5)	
				1.2.2.1.1	Manage Re	quirements		
					1.2.2.1.1.1	Obtain an Ur	nderstanding of Requirements	
						1.2.2.1.1.1.1	1	
						1.2.2.1.1.1.2	Identify Source of Requirements	
						1.2.2.1.1.1.3	Evaluate Requirements	
						1.2.2.1.1.1.4	Negotiate Changes to Requirements	
						1.2.2.1.1.1.5	Establish Agreed-to Requirements	
						1.2.2.1.1.1.6	Review and Approve Agreed-To Requirements	
						1.2.2.1.1.1.7	Baseline Agreed-To Requirements	
		1.2.2.1.1.2 Obtain Commitment to Requirements						
						1.2.2.1.1.2.1	Receive Agreed-To Requirements	
						1.2.2.1.1.2.2	Identify Project Groups	
						1.2.2.1.1.2.3	Evaluate Agreed-To Requirements	
						1.2.2.1.1.2.4	Negotiate Changes to Agreed-To Requirements	
						1.2.2.1.1.2.5	Establish Project Requirements	
						1.2.2.1.1.2.6	Review and Approve Project Requirements	

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			1.2.2.1.1.2.7	Baseline Project Requirements
		1.2.2.1.1.3	Manage Requ	irements Changes
			1.2.2.1.1.3.1	Receive Changes to Requirements
			1.2.2.1.1.3.2	Identify Impacted Stakeholders
			1.2.2.1.1.3.3	Evaluate Changes to Requirements
			1.2.2.1.1.3.4	Negotiate Changes to Changed Requirements
			1.2.2.1.1.3.5	Establish Changed Requirements
			1.2.2.1.1.3.6	Review and Approve Changed Requirements
			1.2.2.1.1.3.7	Baseline Changed Requirements
		1.2.2.1.1.4		Directional Traceability of Requirements
			1.2.2.1.1.4.1	Receive Project Requirements
			1.2.2.1.1.4.2	Identify Predecessor Requirements
			1.2.2.1.1.4.3	Identify Successor Requirements
			1.2.2.1.1.4.4	Identify Sibling and Interface Requirements
			1.2.2.1.1.4.5	Establish Requirements Traceability Matrix
			1.2.2.1.1.4.6	Review and Approve Requirement Traceability Matrix
			1.2.2.1.1.4.7	Baseline Requirement Traceability Matrix
		1.2.2.1.1.5		nsistencies Between Project and Work Requirements
			1.2.2.1.1.5.1	Receive Project Requirements
			1.2.2.1.1.5.2	Identify Project Work Products
			1.2.2.1.1.5.3	Evaluate Project Work Products Against Project Requirements
			1.2.2.1.1.5.4	Negotiate Changes to Project Work Products
			1.2.2.1.1.5.5	Change Project Work Products
			1.2.2.1.1.5.6	Review and Approve Changed Project Work Products
1000	D		1.2.2.1.1.5.7	Baseline Changed Project Work Products
1.2.2.2	•	anning (Proc	·	
	1.2.2.2.1	Establish E		Secret (CAL) Desire A
		1.2.2.2.1.1		Scope of the Project
			1.2.2.2.1.1.1	Receive Project Requirements
			1.2.2.2.1.1.2	Analyze Project Needs
			1.2.2.2.1.1.3	Identify System Architecture, Activities, Products, Evaluations, Audits,
			1.2.2.2.1.1.4 1.2.2.2.1.1.5	Reviews, and Baselines Establish Work Breakdown Structure
			1.2.2.2.1.1.6	Evaluate Work Breakdown Structure
			1.2.2.2.1.1.7	Review and Approve Work Breakdown Structure
			1.2.2.2.1.1.7	Baseline Work Breakdown Structure
		1.2.2.2.1.2		mates of Work Product and Task Attributes
		1,4,4,4,1,4	1.2.2.2.1.2.1	Receive Work Breakdown Structure
			1.2.2.2.1.2.1	Receive Work Dieakdown Structure

		1.2.2.2.1.2.2	Analyze work Breakdown Structure
		1.2.2.2.1.2.3	Identify Work Products from Work Breakdown Structure
		1.2.2.2.1.2.4	Establish Work Product Size Estimates
		1.2.2.2.1.2.5	Evaluate Work Product Size Estimates
		1.2.2.2.1.2.6	Review and Approve Work Product Size Estimates
		1.2.2.2.1.2.7	Baseline Work Product Size Estimates
	1.2.2.2.1.3	Define Projec	
		1.2.2.2.1.3.1	Receive Project Requirements and Work Breakdown Structure
		1.2.2.2.1.3.2	Analyze Project Requirements and Work Breakdown Structure
		1.2.2.2.1.3.3	Analyze Candidate Project Life Cycles
		1.2.2.2.1.3.4	Establish a Project Life Cycle
		1.2.2.2.1.3.5	Evaluate Project Life Cycle
		1.2.2.2.1.3.6	Review and Approve Project Life Cycle
		1.2.2.2.1.3.7	Baseline Project Life Cycle
	1.2.2.2.1.4	Determine Es	timates of Effort and Cost
		1.2.2.2.1.4.1	Receive Work Breakdown Structure, Product Size Estimates, and Project Life
			Cycle
		1.2.2.2.1.4.2	Analyze Work Breakdown Structure, Product Size Estimates, and Project Life
			Cycle
		1.2.2.2.1.4.3	Obtain Historical Data for Similar Products
		1.2.2.2.1.4.4	Establish Estimates for Effort and Cost
		1.2.2.2.1.4.5	Evaluate Estimates for Effort and Cost
		1.2.2.2.1.4.6	Review and Approve Estimates for Effort and Cost
		1.2.2.2.1.4.7	Baseline Estimates for Effort and Cost
1.2.2.2.2	_	Project Plan	
	1.2.2.2.2.1		Budget and Schedule
		1.2.2.2.2.1.1	Receive Work Breakdown Structure, Project Life Cycle, and Estimates of
			Effort and Cost
		1.2.2.2.1.2	Analyze Work Breakdown Structure, Project Life Cycle, and Estimates of
			Effort and Cost
		1.2.2.2.1.3	Identify Major Milestones, Schedule Assumptions, Constraints, and Task
		1.2.2.2.1.4	Dependencies
		1.2.2.2.1.5	Define Budget and Schedule
		1.2.2.2.1.6	Evaluate Budget and Schedule
		1.2.2.2.1.7	Review and Approve Budget and Schedule
		1.2.2.2.1.8	Baseline Budget and Schedule
	1.2.2.2.2	Identify Proje	
		1.2.2.2.2.1	Receive Project Requirements

	1.2.2.2.2.2	Analyze Project Requirements
	1.2.2.2.2.3	Identify Candidate Project Risks
	1.2.2.2.2.4	Establish Project Risks
	1.2.2.2.2.5	Evaluate Project Risks
	1.2.2.2.2.6	Review and Approve Project Risks
	1.2.2.2.2.2.7	Baseline Project Risks
1.2.2.2.3	Plan for Data	Management
	1.2.2.2.3.1	Receive Project Requirements
	1.2.2.2.3.2	Analyze Project Requirements
	1.2.2.2.3.3	Identify Data Requirements and Candidate Data Items
	1.2.2.2.3.4	Establish Data Management Plan
	1.2.2.2.3.5	Evaluate Data Management Plan
	1.2.2.2.3.6	Review and Approve Data Management Plan
	1.2.2.2.3.7	Baseline Data Management Plan
1.2.2.2.4	Plan for Proj	
	1.2.2.2.2.4.1	Receive Work Breakdown Structure, Budget, and Schedule
	1.2.2.2.2.4.2	Analyze Work Breakdown Structure, Budget, and Schedule
	1.2.2.2.2.4.3	Determine Process, Staffing, Facilities, Equipment, and Component
		Requirements
	1.2.2.2.2.4.4	Establish Project Resource Plan
	1.2.2.2.4.5	Evaluate Project Resource Plan
	1.2.2.2.2.4.6	Review and Approve Project Resource Plan
	1.2.2.2.2.4.7	Baseline Project Resource Plan
1.2.2.2.5		led Knowledge and Skills
	1.2.2.2.5.1	Receive Project Resource Plan
	1.2.2.2.5.2	Identify Needed Knowledge and Skills
	1.2.2.2.5.3	Assess Current Knowledge and Skills
	1.2.2.2.5.4	Establish Needed Knowledge and Skill Plan
	1.2.2.2.5.5	Evaluate Needed Knowledge and Skill Plan
	1.2.2.2.5.6	Review and Approve Needed Knowledge and Skill Plan
	1.2.2.2.5.7	Baseline Needed Knowledge and Skill Plan
1.2.2.2.2.6		lder Involvement
	1.2.2.2.2.6.1	Receive Needed Knowledge and Skill Plan
	1.2.2.2.2.6.2	Identify Relevant Stakeholders
	1.2.2.2.2.6.3	Identify Resources Needed by Relevant Stakeholders
	1.2.2.2.6.4	Establish Stakeholder Involvement Plan
	1.2.2.2.2.6.5	Evaluate Stakeholder Involvement Plan
	1.2.2.2.2.6.6	Review and Approve Stakeholder Involvement Plan

		1.2.2.2.2.6.7	Baseline Stakeholder Involvement Plan
	1.2.2.2.2.7	Establish the	Project Plan
		1.2.2.2.2.7.1	Receive Scope of Project, Estimates of Work Product and Task Attributes,
			Project Life Cycle, and Estimates of Effort and Cost
		1.2.2.2.2.7.2	Receive Budget and Schedule, Project Risks, Data Management Plan, Project
			Resources Plan, Needed Knowledge and Skills Plan, and Stakeholder
			Involvement Plan
		1.2.2.2.2.7.3	Establish Project Plan
		1.2.2.2.2.7.4	Evaluate Project Plan
		1.2.2.2.2.7.5	Review and Approve Project Plan
		1.2.2.2.2.7.6	Baseline Project Plan
1.2.2.2.3		mmitment to th	
	1.2.2.2.3.1		that Affect the Project
		1.2.2.2.3.1.1	Identify Cross Functional Area Plans
		1.2.2.2.3.1.2	Evaluate Cross Functional Area Plans
		1.2.2.2.3.1.3	Evaluate Scope of Cross Functional Area Plans
		1.2.2.2.3.1.4	Evaluate Objectives of Cross Functional Area Plans
		1.2.2.2.3.1.5	Evaluate Roles of Cross Functional Area Plans
		1.2.2.2.3.1.6	Evaluate Relationships of Cross Functional Area Plans
		1.2.2.2.3.1.7	Record Results of Evaluating Cross Functional Area Plans
	1.2.2.2.3.2		ork and Resource Levels
		1.2.2.2.3.2.1	Receive Results of Evaluating Cross Functional Area Plans
		1.2.2.2.3.2.2	Identify Differences Between Cross Functional Area Plans
		1.2.2.2.3.2.3	Revise Methods, Budgets, Schedules, Requirements, and Stakeholder
		1 2 2 2 2 2 4	Agreements
		1.2.2.2.3.2.4	Establish Changed Cross Functional Area Plans
		1.2.2.2.3.2.5	Evaluate Changed Cross Functional Area Plans
		1.2.2.2.3.2.6	Review and Approve Changed Cross Functional Area Plans
	10000	1.2.2.2.3.2.7	Baseline Changed Cross Functional Area Plans
	1.2.2.2.3.3	Obtain Plan	
		1.2.2.2.3.3.1	Identify Relevant Internal and External Stakeholders
		1.2.2.2.3.3.2	Identify Internal and External Stakeholder Commitments
		1.2.2.2.3.3.3	Document Internal and External Stakeholder Commitments Evaluate Internal and External Stakeholder Commitments
		1.2.2.2.3.3.4	Evaluate Internal and External Stakeholder Commitments Pavious and Approve Internal Stakeholder Commitments
		1.2.2.2.3.3.5	Review and Approve Internal Stakeholder Commitments Review and Approve External Stakeholder Commitments
		1.2.2.2.3.3.6	Review and Approve External Stakeholder Commitments Baseline Internal and External Stakeholder Commitments
D • (34		1.2.2.2.3.3.7	Dasenne internal and External Stakeholder Communicities

1.2.2.3.1 **Monitor Project Against Plan** 1.2.2.3.1.1 Monitor Project Planning Parameters 1.2.2.3.1.1.1 Measure Project Planning Parameters Monitor Activity and Milestone Completion 1.2.2.3.1.1.2 1.2.2.3.1.1.3 Monitor Cost and Effort Expenditure 1.2.2.3.1.1.4 Monitor Work Product and Task Attributes 1.2.2.3.1.1.5 Monitor Resource Provision and Use 1.2.2.3.1.1.6 Monitor Personnel Knowledge and Skills 1.2.2.3.1.1.7 Document Measurements and Deviations from Project Plan **Monitor Commitments** 1.2.2.3.1.2 1.2.2.3.1.2.1 Receive Internal and External Stakeholder Commitments 1.2.2.3.1.2.2 Analyze Internal and External Stakeholder Commitments 1.2.2.3.1.2.3 Obtain Status of Internal and External Stakeholder Commitments 1.2.2.3.1.2.4 Identify Potential Deviations from Internal and External Stakeholder Commitments 1.2.2.3.1.2.5 Identify Deviations from Internal and External Stakeholder Commitments 1.2.2.3.1.2.6 Record Methods for Identifying Deviations from Internal and External 1.2.2.3.1.2.7 **Stakeholder Commitments** 1.2.2.3.1.2.8 Document Measurements and Deviations from Internal and External 1.2.2.3.1.2.9 **Stakeholder Commitments** 1.2.2.3.1.3 **Monitor Project Risks** 1.2.2.3.1.3.1 Receive Project Risks 1.2.2.3.1.3.2 Analyze Project Risks Obtain Status of Current Project Risks 1.2.2.3.1.3.3 1.2.2.3.1.3.4 Identify Potential Deviations from Project Risk Thresholds 1.2.2.3.1.3.5 Identify Deviations from Project Risk Thresholds 1.2.2.3.1.3.6 Record Methods for Identifying Deviations from Project Risk Thresholds 1.2.2.3.1.3.7 Document Measurements and Deviations from Project Risk Thresholds **Monitor Data Management** 1.2.2.3.1.4 1.2.2.3.1.4.1 Receive Data Management Plan 1.2.2.3.1.4.2 Analyze Data Management Plan Obtain Status of Current Data Management Requirements 1.2.2.3.1.4.3 1.2.2.3.1.4.4 Identify Potential Deviations from Data Management Plan 1.2.2.3.1.4.5 Identify Deviations from Data Management Plan 1.2.2.3.1.4.6 Record Methods for Identifying Data Management Plan Deviations 1.2.2.3.1.4.7 Document Measurements and Deviations from Data Management Plan Monitor Stakeholder Involvement 1.2.2.3.1.5

Receive Stakeholder Involvement Plan 1.2.2.3.1.5.1

	1.2.2.3.1.5.2	Analyze Stakeholder Involvement Plan
	1.2.2.3.1.5.3	Obtain Status of Current Stakeholder Involvement Requirements
	1.2.2.3.1.5.4	Identify Potential Deviations from Stakeholder Involvement Plan
	1.2.2.3.1.5.5	Identify Deviations from Stakeholder Involvement Plan
	1.2.2.3.1.5.6	Record Methods for Identifying Stakeholder Involvement Plan Deviations
	1.2.2.3.1.5.7	Document Measurements and Deviations from Stakeholder Involvement Plan
1.2.2.3.1.6	Conduct Prog	gress Reviews
	1.2.2.3.1.6.1	Receive Measurements and Deviations from Project Planning Parameters,
	1.2.2.3.1.6.2	Commitments, Risks, Data Management, and Stakeholder Involvement
	1.2.2.3.1.6.3	Prepare Progress Report from Project Planning Parameters, Commitments,
	1.2.2.3.1.6.4	Risks, Data Management, and Stakeholder Involvement
	1.2.2.3.1.6.5	Conduct Progress Review of Project Planning Parameters, Commitments,
	1.2.2.3.1.6.6	Risks, Data Management, and Stakeholder Involvement Status
	1.2.2.3.1.6.7	Identify and Document Significant Issues and Deviations from Project Plan
	1.2.2.3.1.6.8	Document Change Requests and Problem Reports
	1.2.2.3.1.6.9	Document Results of Progress Reviews
	1.2.2.3.1.6.10	Track Change Requests and Problem Reports to Closure
1.2.2.3.1.7	Conduct Mile	estone Reviews
	1.2.2.3.1.7.1	Determine Type of Milestone Review to Conduct
	1.2.2.3.1.7.2	Plan Milestone Reviews
	1.2.2.3.1.7.3	Prepare for Milestone Reviews
	1.2.2.3.1.7.4	Conduct Dry Run of Milestone Reviews
	1.2.2.3.1.7.5	Conduct Milestone Reviews
	1.2.2.3.1.7.6	Identify Significant Issues, Impacts, Action Items, Results, and Decisions
	1.2.2.3.1.7.7	Track Action Items to Closure from Milestone Reviews
	rrective Action	
1.2.2.3.2.1	Analyze Issue	
	1.2.2.3.2.1.1	Receive Deviations from Project Planning Parameters, Commitments, Risks,
		Data Management, and Stakeholder Involvement
	1.2.2.3.2.1.2	Analyze Deviations from Project Planning Parameters, Commitments, Risks,
		Data Management, and Stakeholder Involvement
	1.2.2.3.2.1.3	Identify Deviations Needing Corrective Action
	1.2.2.3.2.1.4	Document Deviations Needing Corrective Action
	1.2.2.3.2.1.5	Evaluate Deviations Needing Corrective Action
	1.2.2.3.2.1.6	Review and Approve Deviations Needing Corrective Action
	1.2.2.3.2.1.7	Baseline Deviations Needing Corrective Action
1.2.2.3.2.2	Take Correct	
	1.2.2.3.2.2.1	Receive Deviations Needing Corrective Action

1.2.2.3.2

		1.2.2.3.2.2.2	Analyze Deviations Needing Corrective Action
		1.2.2.3.2.2.3	Identify Corrective Actions for Deviations
		1.2.2.3.2.2.4	Document Corrective Actions for Deviations
		1.2.2.3.2.2.5	Evaluate Corrective Actions for Deviations
		1.2.2.3.2.2.6	Review and Approve Corrective Actions for Deviations
		1.2.2.3.2.2.7	Baseline Corrective Actions for Deviations
	1.2.2.3.2.3	Manage Cori	rective Action
		1.2.2.3.2.3.1	Receive Corrective Actions for Deviations
		1.2.2.3.2.3.2	Analyze Corrective Actions for Deviations
		1.2.2.3.2.3.3	Measure Implementation of Corrective Actions
		1.2.2.3.2.3.4	Analyze Implementation Effectiveness of Corrective Actions
		1.2.2.3.2.3.5	Document Status of Corrective Actions
		1.2.2.3.2.3.6	Review and Approve Status of Corrective Actions
		1.2.2.3.2.3.7	Baseline Status of Corrective Actions
1.2.2.4	Supplier Agreement M	_	
		upplier Agreer	
	1.2.2.4.1.1		cquisition Type
		1.2.2.4.1.1.1	Receive Project Plan
		1.2.2.4.1.1.2	Document Commercial Off the Shelf (COTS) Work Products
		1.2.2.4.1.1.3	Document Contractor Developed Work Products
		1.2.2.4.1.1.4	Document Internal Non-Developmental Item (NDI) Work Products
		1.2.2.4.1.1.5	Document Customer Furnished Work Products
		1.2.2.4.1.1.6	Evaluate Acquisition Types
		1.2.2.4.1.1.7	Review and Approve Acquisition Types
	1.2.2.4.1.2	Select Suppli	
		1.2.2.4.1.2.1	Identify Internal and External Supplier Selection Criteria
		1.2.2.4.1.2.2	Create Request for Proposal (RFP)
		1.2.2.4.1.2.3	Identify Candidate Suppliers and Distribute Request for Proposal (RFP)
		1.2.2.4.1.2.4	Solicit Proposals from Candidate Suppliers
		1.2.2.4.1.2.5	Evaluate Supplier Proposals
		1.2.2.4.1.2.6	Select Suppliers
	100410	1.2.2.4.1.2.7	Review and Approve Suppliers
	1.2.2.4.1.3	-	oplier Agreements
		1.2.2.4.1.3.1	Prepare Statement of Work (SOW)
		1.2.2.4.1.3.2	Prepare Terms and Conditions
		1.2.2.4.1.3.3	Negotiate Contracts with Suppliers
		1.2.2.4.1.3.4	Prepare Contracts with Suppliers
		1.2.2.4.1.3.5	Evaluate Contracts with Suppliers

		1.2.2.4.1.3.6	Review and Approve Contracts with Suppliers			
		1.2.2.4.1.3.7	Baseline Contracts with Suppliers			
1.2.2.4.2	Satisfy Sup	plier Agreeme	**			
	-	Review COT				
		1.2.2.4.2.1.1	Develop Commercial Off the Shelf (COTS) Selection Criteria			
		1.2.2.4.2.1.2	Identify Candidate Commercial Off the Shelf (COTS) Work Products			
		1.2.2.4.2.1.3	Analyze Candidate Commercial Off the Shelf (COTS) Work Products			
		1.2.2.4.2.1.4	Analyze Supplier Ability and Performance			
		1.2.2.4.2.1.5	Identify Risks of Candidate Commercial Off the Shelf (COTS) Work Products			
		1.2.2.4.2.1.6	Select Commercial Off the Shelf (COTS) Work Products			
		1.2.2.4.2.1.7	Review and Approve Commercial Off the Shelf (COTS) Work Products			
	1.2.2.4.2.2	Execute the S	Supplier Agreement			
		1.2.2.4.2.2.1	Monitor and Correct Supplier Progress and Performance			
		1.2.2.4.2.2.2	Monitor and Correct Supplier Processes			
		1.2.2.4.2.2.3	Conduct and Correct Supplier Formal and Informal Reviews			
		1.2.2.4.2.2.4	Conduct and Correct Supplier Technical Reviews			
		1.2.2.4.2.2.5	Conduct and Correct Supplier Management Reviews			
		1.2.2.4.2.2.6	Monitor and Correct Supplier Risks			
		1.2.2.4.2.2.7	Revise Supplier Contracts and Work Products			
	1.2.2.4.2.3	Accept the Acquired Product				
		1.2.2.4.2.3.1	Define Supplier Acceptance Procedures			
		1.2.2.4.2.3.2	Review and Approve Supplier Acceptance Procedures			
		1.2.2.4.2.3.3	Verify Supplier Work Product Requirements			
		1.2.2.4.2.3.4	Verify Non-Technical Supplier Work Product Requirements			
		1.2.2.4.2.3.5	Document Results of Supplier Work Product Verification			
		1.2.2.4.2.3.6	Establish Action Plans to Correct Supplier Work Product Deviations			
		1.2.2.4.2.3.7	Track Supplier Work Product Deviations to Closure			
	1.2.2.4.2.4	Transition Pa				
		1.2.2.4.2.4.1	Identify and Evaluate Requirements for Operation and Use of Supplier Work			
			Products			
		1.2.2.4.2.4.2	Prepare Facilities for Managing Supplier Work Products			
		1.2.2.4.2.4.3	Conduct Training on Operation and Use of Supplier Work Products			
		1.2.2.4.2.4.4	Verify Proper Operation and Use of Supplier Work Products			
		1.2.2.4.2.4.5	Document Results of Verifying Operation and Use of Supplier Work Products			
		1.2.2.4.2.4.6	Review and Approve Results of Verifying Operation and Use of Supplier Work			
			Products			
		1.2.2.4.2.4.7	Track Deviations from Operation and Use of Supplier Work Products to			
			Closure			

1.2.2.5 Measurement and Analysis (Procedure—8)

1.2.2.5.1

Align Measurement and Analysis Activities 1.2.2.5.1.1 Establish Measurement Objectives **Identify Sources of Information Needs** 1.2.2.5.1.1.1 1.2.2.5.1.1.2 **Identify and Prioritize Information Needs** 1.2.2.5.1.1.3 **Identify Measurement Objectives** 1.2.2.5.1.1.4 Create Traceability Between Information Needs and Measurement Objectives 1.2.2.5.1.1.5 Document Information Needs and Measurement Objectives 1.2.2.5.1.1.6 Evaluate Information Needs and Measurement Objectives 1.2.2.5.1.1.7 Review and Approve Information Needs and Measurement Objectives **Specify Measures** 1.2.2.5.1.2 Analyze Information Needs and Measurement Objectives 1.2.2.5.1.2.1 1.2.2.5.1.2.2 Identify Candidate Base and Derived Measures 1.2.2.5.1.2.3 Specify Operational Definitions for Candidate Base and Derived Measures 1.2.2.5.1.2.4 Document Base and Derived Measures 1.2.2.5.1.2.5 Evaluate Base and Derived Measures 1.2.2.5.1.2.6 Review and Approve Base and Derived Measures 1.2.2.5.1.2.7 Baseline Base and Derived Measures **Specify Data Collection and Storage Procedures** 1.2.2.5.1.3 1.2.2.5.1.3.1 Analyze Base and Derived Measures 1.2.2.5.1.3.2 Identify Existing Sources of Measurement Data Identify New Sources of Measurement Data 1.2.2.5.1.3.3 Specify Mechanisms, Guides, Processes, and Procedures for Collecting and 1.2.2.5.1.3.4 Storing Measurement Data (Manually and Automatically) 1.2.2.5.1.3.5 Evaluate Mechanisms, Guides, Processes, and Procedures for Collecting and Storing Measurement Data Review and Approve Mechanisms, Guides, Processes, and Procedures for 1.2.2.5.1.3.6 Collecting and Storing Measurement Data 1.2.2.5.1.3.7 Baseline Mechanisms, Guides, Processes, and Procedures for Collecting and Storing Measurement Data **Specify Analysis Procedures** 1.2.2.5.1.4 Analyze Mechanisms, Guides, Processes, and Procedures for Collecting and 1.2.2.5.1.4.1 Storing Measurement Data 1.2.2.5.1.4.2 Identify and Prioritize Analyses and Reports for Measurement Data 1.2.2.5.1.4.3 Select Methods and Tools for Analyzing and Reporting Measurement Data 1.2.2.5.1.4.4 Develop Procedures for Analyzing and Reporting Measurement Data 1.2.2.5.1.4.5 Evaluate Procedures for Analyzing and Reporting Measurement Data

Review and Approve for Analyzing and Reporting Measurement Data

1.2.2.5.1.4.6

1.2.2.5.1.4.7	Baseline for Analyzing and Reporting Measurement Data
	-

		1.2.2.5.1.4.7	Baseline for Analyzing and Reporting Measurement Data
1.2.2.5.2	Provide Mo	easurement Res	sults
	1.2.2.5.2.1	Collect Meas	urement Data
		1.2.2.5.2.1.1	Identify Measurement Data to be Collected
		1.2.2.5.2.1.2	Validate Measurement Data to be Collected
		1.2.2.5.2.1.3	Collect Measurement Data for Base Measures
		1.2.2.5.2.1.4	Generate Measurement Data for Derived Measures
		1.2.2.5.2.1.5	Evaluate Measurement Data for Base and Derived Measures
		1.2.2.5.2.1.6	Review and Approve Measurement Data for Base and Derived Measures
		1.2.2.5.2.1.7	Baseline Measurement Data for Base and Derived Measures
	1.2.2.5.2.2	Analyze Mea	surement Data
		1.2.2.5.2.2.1	Identify Measurement Data for Base and Derived Measures
		1.2.2.5.2.2.2	Conduct Preliminary Analysis of Measurement Data
		1.2.2.5.2.2.3	Evaluate Preliminary Results of Measurement Data Analysis
		1.2.2.5.2.2.4	Conduct Final Analysis of Measurement Data
		1.2.2.5.2.2.5	Evaluate Final Results Measurement Data Analysis
		1.2.2.5.2.2.6	Review and Approve Results of Measurement Data Analysis
		1.2.2.5.2.2.7	Baseline Measurement Data Analysis
	1.2.2.5.2.3	Store Data ar	nd Results
		1.2.2.5.2.3.1	Identify Measurement Data and Analyses
		1.2.2.5.2.3.2	Validate Measurement Data and Analyses
		1.2.2.5.2.3.3	Review and Approve Measurement Data and Analyses
		1.2.2.5.2.3.4	Store Measurement Data and Analyses
		1.2.2.5.2.3.5	Identify Distribution Requirements of Measurement Data and Analyses
		1.2.2.5.2.3.6	Identify Access Control of Measurement Data and Analyses
		1.2.2.5.2.3.7	Prevent Abuse of Measurement Data and Analyses
	1.2.2.5.2.4	Communicat	
		1.2.2.5.2.4.1	Identify Stakeholders of Measurement Data and Analyses
		1.2.2.5.2.4.2	Create Stakeholder Distribution List for Measurement Data and Analyses
		1.2.2.5.2.4.3	Review and Approve Distribution List for Measurement Data and Analyses
		1.2.2.5.2.4.4	Periodically Distribute Measurement Data and Analyses to Stakeholders
		1.2.2.5.2.4.5	Assist Stakeholders in Understanding Measurement Data and Analyses

Collect Feedback from Stakeholders on Measurement Data and Analyses

Review and Approve Feedback from Stakeholders on Measurement Data and

1.2.2.6 Process and Product Quality Assurance (Procedure—5)

1.2.2.6.1 **Objectively Evaluate Processes and Work Products**

1.2.2.5.2.4.6

1.2.2.5.2.4.7

1.2.2.6.1.1 Define a Plan for Evaluating Processes and Work Products

Analyses

		1.2.2.6.1.1.1	Receive and Analyze Project Plan
		1.2.2.6.1.1.2	Identify and Select Processes and Work Products for Evaluation
		1.2.2.6.1.1.3	Create Process and Work Product Evaluation Criteria
		1.2.2.6.1.1.4	Create a Plan and Schedule for Evaluating Processes and Work Products
		1.2.2.6.1.1.5	Evaluate Plan for Evaluating Processes and Work Products
		1.2.2.6.1.1.6	Review and Approve Plan for Evaluating Processes and Work Products
		1.2.2.6.1.1.7	Baseline Plan for Evaluating Project Processes and Work Products
	1.2.2.6.1.2	Objectively E	valuate Processes
		1.2.2.6.1.2.1	Receive and Analyze Plan for Evaluating Processes and Work Products
		1.2.2.6.1.2.2	Plan and Organize Evaluations of Processes
		1.2.2.6.1.2.3	Administer Orientation and Overview of Process Evaluation for Project Staff
		1.2.2.6.1.2.4	Conduct Process Evaluation
		1.2.2.6.1.2.5	Prepare Results of Process Evaluation
		1.2.2.6.1.2.6	Evaluate Results of Process Evaluation
		1.2.2.6.1.2.7	Review and Approve Results of Process Evaluation
	1.2.2.6.1.3	Objectively E	valuate Work Products and Services
		1.2.2.6.1.3.1	Receive and Analyze Plan for Evaluating Processes and Work Products
		1.2.2.6.1.3.2	Plan and Organize Evaluations of Work Products
		1.2.2.6.1.3.3	Administer Orientation and Overview of Work Product Evaluation for Project
			Staff
		1.2.2.6.1.3.4	Conduct Work Product Evaluation
		1.2.2.6.1.3.5	Prepare Results of Work Product Evaluation
		1.2.2.6.1.3.6	Evaluate Results of Work Product Evaluation
		1.2.2.6.1.3.7	Review and Approve Results of Work Product Evaluation
1.2.2.6.2	Provide Ob	jective Insight	
	1.2.2.6.2.1	Communicate	e and Ensure Resolution of Noncompliance Issues
		1.2.2.6.2.1.1	Evaluate Results of Process and Work Product Evaluations
		1.2.2.6.2.1.2	Identify Process and Work Product Non-Compliances
		1.2.2.6.2.1.3	Track Non-Compliances to Closure
		1.2.2.6.2.1.4	Document Unresolved Non-Compliances
		1.2.2.6.2.1.5	Prepare Trend Analyses of Non-Compliances
		1.2.2.6.2.1.6	Report Unresolved Non-Compliances to Senior Management
		1.2.2.6.2.1.7	Inform Stakeholders of Results of Process and Work Product Evaluations
	1.2.2.6.2.2	Establish Rec	ords
		1.2.2.6.2.2.1	Record Logs from Process and Work Product Evaluations
		1.2.2.6.2.2.2	Record Reports from Process and Work Product Evaluations
		1.2.2.6.2.2.3	Record Reports of Non-Compliances from Process and Work Product
			Evaluations

			1.2.2.6.2.2.4	Record Trend Analyses of Non-Compliances from Process and Work Product Evaluations
			1.2.2.6.2.2.5	Record Status of Corrective Actions from Process and Work Product Evaluations
			1.2.2.6.2.2.6	Review and Approve Records from Process and Work Product Evaluations
			1.2.2.6.2.2.7	Baseline Records from Process and Work Product Evaluations
1.2.2.7	Configura	ation Manage	ement (Procedu	ıre—7)
	1.2.2.7.1	Establish B	•	
		1.2.2.7.1.1	Identify Conf	figuration Items
			1.2.2.7.1.1.1	Receive and Analyze Project Plan
			1.2.2.7.1.1.2	Identify Candidate Configuration Items
			1.2.2.7.1.1.3	Evaluate Candidate Configuration Items
			1.2.2.7.1.1.4	Identify Final Configuration Items
			1.2.2.7.1.1.5	Review and Approve Configuration Items
			1.2.2.7.1.1.6	Define Identifiers, Characteristics, and Owners for Configuration Items
			1.2.2.7.1.1.7	Assign Configuration Items to Baselines
		1.2.2.7.1.2	Establish a C	onfiguration Management System
			1.2.2.7.1.2.1	Receive and Analyze Project Plan
			1.2.2.7.1.2.2	Create and Revise Configuration Management System Structure
			1.2.2.7.1.2.3	Establish Multiple Control Levels for Configuration Management
			1.2.2.7.1.2.4	Store and Receive Configuration Items in Configuration Management System
			1.2.2.7.1.2.5	Share and Transfer Configuration Items Between Control Levels
			1.2.2.7.1.2.6	Store and Retrieve Archived Versions of Configuration Items
			1.2.2.7.1.2.7	Create, Store, Update, and Retrieve Configuration Management Records and
				Reports
		1.2.2.7.1.3	Create or Re	lease Baselines
			1.2.2.7.1.3.1	Receive and Analyze Project Plan
			1.2.2.7.1.3.2	Create Candidate Baseline of Configuration Items
			1.2.2.7.1.3.3	Evaluate Candidate Baseline of Configuration Items
			1.2.2.7.1.3.4	Create Final Baseline of Configuration Items
			1.2.2.7.1.3.5	Review and Approve Baselines of Configuration Items
			1.2.2.7.1.3.6	Document Configuration Items in Baselines
			1.2.2.7.1.3.7	Make Baselines of Configuration Items Available to Projects
	1.2.2.7.2		Control Chang	ges
		1.2.2.7.2.1	Track Chang	•
			1.2.2.7.2.1.1	
			1.2.2.7.2.1.2	Record Change Requests for Baselines of Configuration Items
			1.2.2.7.2.1.3	Review Change Requests for Baselines of Configuration Items

			1.2.2.7.2.1.4	Assign Change Requests for Baselines of Configuration Items
			1.2.2.7.2.1.5	Evaluate Change Requests for Baselines of Configuration Items
			1.2.2.7.2.1.6	Review and Approve Change Requests for Baselines of Configuration Items
			1.2.2.7.2.1.7	Track Change Requests for Baselines of Configuration Items
		1.2.2.7.2.2	Control Conf	iguration Items
			1.2.2.7.2.2.1	Ensure Configuration Items Are Accompanied By Approved Change Requests
			1.2.2.7.2.2.2	Ensure Configuration Items Are Validated Before Check-In
			1.2.2.7.2.2.3	Check-In Configuration Items at Designated Control Points
			1.2.2.7.2.2.4	Evaluate Configuration Items for Completeness
			1.2.2.7.2.2.5	Record Check-In of Configuration Items Along with Rationale
			1.2.2.7.2.2.6	Update Status of Baselines of Configuration Items
			1.2.2.7.2.2.7	Review and Approve Status of Baselines of Configuration Items
	1.2.	2.7.3 Establish I		
		1.2.2.7.3.1		nfiguration Management Records
			1.2.2.7.3.1.1	Maintain Audit Trail of Actions to Baselines of Configuration Items
			1.2.2.7.3.1.2	Distribute Status of Baselines of Configuration Items to Stakeholders
			1.2.2.7.3.1.3	Maintain the Latest Version of Baselines of Configuration Items
			1.2.2.7.3.1.4	Maintain Descriptions of Baselines and Versions of Baselines
			1.2.2.7.3.1.5	Analyze and Describe the Differences Between Baselines and Versions of
			1007016	Baselines
			1.2.2.7.3.1.6	Maintain Audit Trail of Actions to Configuration Items
		100500	1.2.2.7.3.1.7	Review and Approve Configuration Management Records
		1.2.2.7.3.2		figuration Audits
			1.2.2.7.3.2.1	Assess Integrity of Baselines
			1.2.2.7.3.2.2	Confirm Configuration Records Reflect Baselines and Configuration Items
			1.2.2.7.3.2.3	Review the Structure and Integrity of Baselines of Configuration Items
			1.2.2.7.3.2.4	Confirm the Completeness and Correctness of Baselines of Configuration Items
			1.2.2.7.3.2.5	Confirm Compliance with Configuration Management Procedures Review and Approve Results of Configuration Audits
			1.2.2.7.3.2.6	Review and Approve Results of Configuration Audits Track Action Items from Audit to Closure
1.2.3	Work Drody	ot (120)	1.2.2.7.3.2.7	Track Action Items from Audit to Closure
1.2.3	Work Produ 1.2.3.1 Red	quirements Manage	mont (Worlz D	roduct 13)
		- ~		10duct—13)
	1.2.	3.1.1 Manage Re 1.2.3.1.1.1	_	nderstanding of Requirements
		1,2,3,1,1,1	1.2.3.1.1.1.1	Lists of Criteria for Distinguishing Requirements Providers
			1.2.3.1.1.1.2	Criteria for Evaluation and Acceptance of Requirements
			1.2.3.1.1.1.3	Results of Analyses Against Requirements
			1.2.3.1.1.1.4	Agreed-To Set of Requirements
			1.2.2.1.1.1.T	1151000 10 Sot of Requirements

		1.2.3.1.1.2	Obtain Comi	nitment to Requirements
			1.2.3.1.1.2.1	Requirements Impact Assessments
			1.2.3.1.1.2.2	Documented Commitments to Requirements and Requirements Changes
		1.2.3.1.1.3	Manage Requ	uirements Changes
			1.2.3.1.1.3.1	Requirements Status
			1.2.3.1.1.3.2	Requirements Database
			1.2.3.1.1.3.3	Requirements Decision Database
		1.2.3.1.1.4	Maintain Bi-	directional Traceability of Requirements
			1.2.3.1.1.4.1	Requirements Traceability Matrix
			1.2.3.1.1.4.2	Requirements Tracking System
		1.2.3.1.1.5	•	nsistencies Between Project and Work Requirements
			1.2.3.1.1.5.1	Documentation of Inconsistencies
			1.2.3.1.1.5.2	Corrective Actions
1.2.3.2		•	k Product—46	6)
	1.2.3.2.1	Establish E		
		1.2.3.2.1.1		Scope of the Project
			1.2.3.2.1.1.1	Task Descriptions
			1.2.3.2.1.1.2	Work Package Descriptions
			1.2.3.2.1.1.3	Work Breakdown Structure
		1.2.3.2.1.2		imates of Work Product and Task Attributes
			1.2.3.2.1.2.1	Technical Approach
			1.2.3.2.1.2.2	Size and complexity of Tasks and Work Products
			1.2.3.2.1.2.3	Estimating Models
			1.2.3.2.1.2.4	Attribute Estimates
		1.2.3.2.1.3	Define Projec	
			1.2.3.2.1.3.1	Project Life Cycle Phases
		1.2.3.2.1.4		stimates of Effort and Cost
			1.2.3.2.1.4.1	Estimation Rationale
			1.2.3.2.1.4.2	Project Effort Estimates
			1.2.3.2.1.4.3	Project Cost Estimates
	1.2.3.2.2	_	Project Plan	
		1.2.3.2.2.1		Budget and Schedule
			1.2.3.2.2.1.1	Project Schedules
			1.2.3.2.2.1.2	Schedule Dependencies
		10000	1.2.3.2.2.1.3	Project Budget
		1.2.3.2.2.2	Identify Proj	
			1.2.3.2.2.2.1	Identified Risks
			1.2.3.2.2.2.2	Risk Impacts and Probabilities

	1.2.3.2.2.2.3	Risk Priorities
1.2.3.2.2.3		Management
	1.2.3.2.2.3.1	Data Management Plan
	1.2.3.2.2.3.2	Master List of Managed Data
	1.2.3.2.2.3.3	Data Content and Format Description
	1.2.3.2.2.3.4	Data Requirements Lists
	1.2.3.2.2.3.5	Privacy Requirements
	1.2.3.2.2.3.6	Security Requirements
	1.2.3.2.2.3.7	Security Procedures
	1.2.3.2.2.3.8	Mechanism for Data retrieval, Reproduction, and Distribution
	1.2.3.2.2.3.9	Schedule for Collection of Project Data
	1.2.3.2.2.3.10	List of Project Data to be Collected
1.2.3.2.2.4	U	
	1.2.3.2.2.4.1	WBS Work Packages
	1.2.3.2.2.4.2	WBS Task Dictionary
	1.2.3.2.2.4.3	Staffing Requirements
	1.2.3.2.2.4.4	Critical Facilities/Equipment List
	1.2.3.2.2.4.5	Process/Workflow Definitions and Diagrams
	1.2.3.2.2.4.6	Program Administration Requirements List
1.2.3.2.2.5		led Knowledge and Skills
	1.2.3.2.2.5.1	Inventory of Skill Needs
	1.2.3.2.2.5.2	Staffing and New Hire Plans
	1.2.3.2.2.5.3	Skills and Training Databases
1.2.3.2.2.6		lder Involvement
	1.2.3.2.2.6.1	Stakeholder Involvement Plan
1.2.3.2.2.7		· ·
	1.2.3.2.2.7.1	Project Plan
	nmitment to th	
1.2.3.2.3.1		that Affect the Project
10000		Record of Reviews
1.2.3.2.3.2		ork and Resource Levels
		Revised Methods and Estimating Parameters
		Renegotiated Budgets
	1.2.3.2.3.2.3	Revised Schedules
	1.2.3.2.3.2.4	Revised Requirements Lists
10000	1.2.3.2.3.2.5	Renegotiated Stakeholder Agreements
1.2.3.2.3.3	Obtain Plan (
	1.2.3.2.3.3.1	Requests for Commitments

1.2.3.2.3

1.2.3.2.3.3.2 Commitments

1.2.3.3 Project Monitoring and Control (Work Product—11)

1.2.3.3.1 Monitor Project Against Plan

1.2.3.3.1.1 Monitor Project Planning Parameters

1.2.3.3.1.1.1 Records of Project Performance

1.2.3.3.1.1.2 Records of Significant Deviations

1.2.3.3.1.2 Monitor Commitments

1.2.3.3.1.2.1 Records of Commitment Reviews

1.2.3.3.1.3 Monitor Project Risks

1.2.3.3.1.3.1 Records of Project Risk Monitoring

1.2.3.3.1.4 Monitor Data Management

1.2.3.3.1.4.1 Records of Data Management

1.2.3.3.1.5 Monitor Stakeholder Involvement

1.2.3.3.1.5.1 Records of Stakeholder Involvement

1.2.3.3.1.6 Conduct Progress Reviews

1.2.3.3.1.6.1 Results of Project Reviews

1.2.3.3.1.7 Conduct Milestone Reviews

1.2.3.3.1.7.1 Results of Milestone Reviews

1.2.3.3.2 Manage Corrective Action to Closure

1.2.3.3.2.1 Analyze Issues

1.2.3.3.2.1.1 List of Issues Needing Corrective Action

1.2.3.3.2.2 Take Corrective Action

1.2.3.3.2.2.1 Corrective Action Plan

1.2.3.3.2.3 Manage Corrective Action

1.2.3.3.2.3.1 Results of Corrective Action

1.2.3.4 Supplier Agreement Management (Work Product—26)

1.2.3.4.1 Establish Supplier Agreements

1.2.3.4.1.1 Determine Acquisition Type

1.2.3.4.1.1.1 List of Acquisition Types

1.2.3.4.1.2 Select Suppliers

1.2.3.4.1.2.1 List of Candidate Suppliers

1.2.3.4.1.2.2 List of Preferred Suppliers

1.2.3.4.1.2.3 Rationale for Selection of Suppliers

1.2.3.4.1.2.4 Advantages and Disadvantages of Candidate Suppliers

1.2.3.4.1.2.5 Evaluation Criteria

1.2.3.4.1.2.6 Solicitation Materials and Requirements

1.2.3.4.1.3 Establish Supplier Agreements

1.2.3.4.1.3.1 Statements of Work

			1.2.3.4.1.3.2	Contracts
			1.2.3.4.1.3.3	Memoranda of Agreement
			1.2.3.4.1.3.4	Licensing Agreements
	1.2.3.4.2	Satisfy Sup	plier Agreeme	
			Review COT	
			1.2.3.4.2.1.1	Trade Studies
			1.2.3.4.2.1.2	Price Lists
			1.2.3.4.2.1.3	Evaluation Criteria
			1.2.3.4.2.1.4	Supplier Performance Reports
			1.2.3.4.2.1.5	Reviews of COTS Products
		1.2.3.4.2.2	Execute Supp	olier Agreement
			1.2.3.4.2.2.1	Supplier Progress Reports and Performance Measures
			1.2.3.4.2.2.2	Supplier Review Materials and Reports
			1.2.3.4.2.2.3	Action Items Tracked to Closure
			1.2.3.4.2.2.4	Documentation of Product and Document Deliveries
		1.2.3.4.2.3	Accept the Ac	cquired Product
			1.2.3.4.2.3.1	Acceptance Test Procedures
			1.2.3.4.2.3.2	Acceptance Test Results
			1.2.3.4.2.3.3	Discrepancy Reports or Corrective Action Plans
		1.2.3.4.2.4	Transition Pa	roducts
			1.2.3.4.2.4.1	Transition Plans
			1.2.3.4.2.4.2	Training Reports
			1.2.3.4.2.4.3	Support and Maintenance Reports
1.2.3.5	Measuren		ılysis (Work Pı	
	1.2.3.5.1			Analysis Activities
		1.2.3.5.1.1		asurement Objectives
			1.2.3.5.1.1.1	Measurement Objectives
		1.2.3.5.1.2		
			1.2.3.5.1.2.1	Specifications of Base and Derived Measures
		1.2.3.5.1.3		Collection and Storage Procedures
			1.2.3.5.1.3.1	<u> </u>
				Data Collection Tools
		1.2.3.5.1.4		ysis Procedures
			1.2.3.5.1.4.1	Analysis Specification and Procedures
			1.2.3.5.1.4.2	Data Analysis Tools
	1.2.3.5.2		easurement Res	
		1.2.3.5.2.1		urement Data
			1.2.3.5.2.1.1	Base and Derived Measurement Data Sets

			1.2.3.5.2.1.2	Results of Data Integrity Sets
		1.2.3.5.2.2	Analyze Mea	surement Data
			1.2.3.5.2.2.1	Analysis Results and Draft Reports
		1.2.3.5.2.3	Store Data ar	nd Results
			1.2.3.5.2.3.1	Stored Data Inventory
		1.2.3.5.2.4	Communicat	e Results
			1.2.3.5.2.4.1	Delivered Reports and Analysis Results
			1.2.3.5.2.4.2	Interpretation Guidance of Analysis Results
1.2.3.6	Process an	nd Product Q	Quality Assurar	nce (Work Product—14)
	1.2.3.6.1	Objectively	Evaluate Prod	cesses and Work Products
		1.2.3.6.1.1	Define a Plan	for Evaluating Processes and Work Products
			1.2.3.6.1.1.1	Process and Work Product Evaluation Plan
		1.2.3.6.1.2	Objectively E	Evaluate Processes
			1.2.3.6.1.2.1	Evaluation Reports
			1.2.3.6.1.2.2	Non-Compliance Reports
			1.2.3.6.1.2.3	Corrective Actions
		1.2.3.6.1.3	Objectively E	Evaluate Work Products and Services
			1.2.3.6.1.3.1	1
			1.2.3.6.1.3.2	Non-Compliance Reports
			1.2.3.6.1.3.3	Corrective Actions
	1.2.3.6.2		jective Insight	
		1.2.3.6.2.1		e and Ensure Resolution of Noncompliance Issues
			1.2.3.6.2.1.1	Corrective Action Reports
			1.2.3.6.2.1.2	Evaluation Reports
			1.2.3.6.2.1.3	Quality Trends
		1.2.3.6.2.2	Establish Red	
			1.2.3.6.2.2.1	Evaluation Logs
			1.2.3.6.2.2.2	· •
			1.2.3.6.2.2.3	Status Reports of Corrective Actions
			1.2.3.6.2.2.4	Reports of Quality Trends
1.2.3.7	_	_	ement (Work P	roduct—16)
	1.2.3.7.1	Establish B		
		1.2.3.7.1.1		figuration Items
			1.2.3.7.1.1.1	Identified Configuration Items
		1.2.3.7.1.2		onfiguration Management System
			1.2.3.7.1.2.1	Configuration Management System with Controlled Work Products
			1.2.3.7.1.2.2	Configuration Management System with Access Control Procedures
			1.2.3.7.1.2.3	Change Request Database

				1.2.3.7.1.3	Create or Re	lease Baselines	
					1.2.3.7.1.3.1	Baselines	
					1.2.3.7.1.3.2	Descriptions of Baselines	
			1.2.3.7.2	Track and	Control Chang	ges	
				1.2.3.7.2.1	Track Chang	e Requests	
					1.2.3.7.2.1.1	Change Requests	
				1.2.3.7.2.2	Control Conf	iguration Items	
					1.2.3.7.2.2.1	Revision History of Configuration Items	
					1.2.3.7.2.2.2	Archives of Baselines	
			1.2.3.7.3	Establish Iı	ntegrity		
				1.2.3.7.3.1	Establish Con	nfiguration Management Records	
					1.2.3.7.3.1.1	Revision History of Configuration Items	
					1.2.3.7.3.1.2	Change Log	
					1.2.3.7.3.1.3	Copy of Change Requests	
					1.2.3.7.3.1.4	Status of Configuration Items	
					1.2.3.7.3.1.5	Differences Between Baselines	
				1.2.3.7.3.2	Perform Con	figuration Audits	
					1.2.3.7.3.2.1	Configuration Audit Results	
					1.2.3.7.3.2.2	Action Items	
1.3	Matur	ity Level ?	3—Defined	l (Policy—13	, Procedure—1	01, Work Product—276)	
	1.3.1	Policy (1	.3)				
		1.3.1.1	Requireme	ents Developn	nent		
		1.3.1.2	Technical	Solution			
		1.3.1.3	Product In	tegration			
		1.3.1.4	Verification				
		1.3.1.5	Validation				
		1.3.1.6	Organizati	onal Process	Focus		
		1.3.1.7	Organizati	onal Process	Definition		
		1.3.1.8	Organizati	onal Training			
		1.3.1.9	Integrated	Project Mana	gement for IPP	D	
		1.3.1.10	Risk Mana	igement			
		1.3.1.11	Integrated	Teaming			
		1.3.1.12	Decision A	Analysis and F	Resolution		
		1.3.1.13	Organizati	onal Environi	ment for Integra	tion	
	1.3.2	Procedu	` /				
		1.3.2.1	Requirem		ment (Procedu		
			1.3.2.1.1	Develop Cu	istomer Requir	rements	
				1.3.2.1.1.1	Elicit Needs		

		1.3.2.1.1.1.1	Develop Scope of Initial System Requirements
		1.3.2.1.1.1.2	Conduct an Operations Analysis of Customer Functions
		1.3.2.1.1.1.3	Develop, Analyze, and Prioritize Statements of Customer Needs
		1.3.2.1.1.1.4	Document Customer Needs
		1.3.2.1.1.1.5	Evaluate Customer Needs
		1.3.2.1.1.1.6	Review and Approve Customer Needs
		1.3.2.1.1.1.7	Baseline Customer Needs
	1.3.2.1.1.2	Collect Stake	holder Needs
		1.3.2.1.1.2.1	Receive Stakeholder Needs from Customer
		1.3.2.1.1.2.2	Analyze Stakeholder Needs
		1.3.2.1.1.2.3	Prioritize Stakeholder Needs
		1.3.2.1.1.2.4	Document Stakeholder Needs
		1.3.2.1.1.2.5	Evaluate Stakeholder Needs
		1.3.2.1.1.2.6	Review and Approve Stakeholder Needs
		1.3.2.1.1.2.7	Baseline Stakeholder Needs
	1.3.2.1.1.3	_	Customer Requirements
		1.3.2.1.1.3.1	Receive Customer and Stakeholder Needs
		1.3.2.1.1.3.2	Analyze Customer and Stakeholder Needs
		1.3.2.1.1.3.3	Prioritize Customer and Stakeholder Needs
		1.3.2.1.1.3.4	Transform Customer and Stakeholder Needs Into Customer Requirements
		1.3.2.1.1.3.5	Evaluate Customer Requirements
		1.3.2.1.1.3.6	Review and Approve Customer Requirements
		1.3.2.1.1.3.7	Baseline Customer Requirements
1.3.2.1.2	_	oduct Requirer	
	1.3.2.1.2.1		duct and Product Component Requirements
		1.3.2.1.2.1.1	Receive Customer Requirements
		1.3.2.1.2.1.2	Analyze Customer Requirements
		1.3.2.1.2.1.3	Derive Technical Product and Product Component Requirements
		1.3.2.1.2.1.4	Analyze and Prioritize Product and Product Component Requirements
		1.3.2.1.2.1.5	Evaluate Product and Product Component Requirements
		1.3.2.1.2.1.6	Review and Approve Product and Product Component Requirements
		1.3.2.1.2.1.7	Baseline Product and Product Component Requirements
	1.3.2.1.2.2		uct Component Requirements
		1.3.2.1.2.2.1	Receive Product and Product Component Requirements
		1.3.2.1.2.2.2	Allocate Requirements to Functions
		1.3.2.1.2.2.3	Allocate Design Constraints to Product Requirements
		1.3.2.1.2.2.4	Document Relationships Among Allocated Requirements
		1.3.2.1.2.2.5	Evaluate Allocated Product Component Requirements

		1.3.2.1.2.2.6	Review and Approve Allocated Product Component Requirements
		1.3.2.1.2.2.7	Baseline Allocated Product Component Requirements
	1.3.2.1.2.3	Identify Inter	face Requirements
		1.3.2.1.2.3.1	Receive Allocated Product Component Requirements
		1.3.2.1.2.3.2	Analyze Product Component Requirements
		1.3.2.1.2.3.3	Derive External and Internal Interface Requirements from Product Component
			Requirements
		1.3.2.1.2.3.4	Document Interface Requirements
		1.3.2.1.2.3.5	Evaluate Interface Requirements
		1.3.2.1.2.3.6	Review and Approve Interface Requirements
		1.3.2.1.2.3.7	Baseline Interface Requirements
1.3.2.1.3	Analyze an	d Validate Req	uirements
	1.3.2.1.3.1	Establish Ope	erational Concepts and Scenarios
		1.3.2.1.3.1.1	Receive Customer Needs, Stakeholder Needs, Customer Requirements, Product
		1.3.2.1.3.1.2	and Product Component Requirements, and Interface Requirements
		1.3.2.1.3.1.3	Analyze Customer Needs, Stakeholder Needs, Customer Requirements, Product
			and Product Component Requirements, and Interface Requirements
		1.3.2.1.3.1.4	Develop Operational Concepts and Scenarios for Functionality, Performance,
		1.3.2.1.3.1.5	Maintenance, Support, and Disposal
		1.3.2.1.3.1.6	Document Operational Concept
		1.3.2.1.3.1.7	Evaluate Operational Concept
		1.3.2.1.3.1.8	Review and Approve Operational Concept
		1.3.2.1.3.1.9	Baseline Operational Concept
	1.3.2.1.3.2	Establish a D	efinition of Required Functionality
		1.3.2.1.3.2.1	Analyze and Quantify Functionality Required by End-Users and Identify
			Logical or Functional Partitions
		1.3.2.1.3.2.2	Partition Requirements into Groups and Sequence Time Critical Functions
		1.3.2.1.3.2.3	Allocate Customer, Functional, and Performance Requirements to Functional
			Partitions
		1.3.2.1.3.2.4	Document Functional Architecture
		1.3.2.1.3.2.5	Evaluate Functional Architecture
		1.3.2.1.3.2.6	Review and Approve Functional Architecture
		1.3.2.1.3.2.7	Baseline Functional Architecture
	1.3.2.1.3.3	Analyze Requ	
		1.3.2.1.3.3.1	Analyze Stakeholder Needs, Expectations, Constraints, and External Interfaces
		1.3.2.1.3.3.2	Determine if Requirements Satisfy Higher Level Requirements
		1.3.2.1.3.3.3	Analyze Requirements for Completeness, Feasibility, Realizability, and
			Verifiability

		1.3.2.1.3.3.4	and Performance
		1.3.2.1.3.3.5	Identify Technical Performance Measures and Analyze Operational Concepts
		1.3.2.1.3.3.3	and Scenarios
		1.3.2.1.3.3.6	Review and Approve Results of Requirements Analysis
		1.3.2.1.3.3.7	Baseline Requirements
	1.3.2.1.3.4		uirements to Achieve Balance
		1.3.2.1.3.4.1	Receive Customer Needs, Stakeholder Needs, Customer Requirements, Product
			and Product Component Requirements, Interface Requirements, Functional
			Architecture, and Technical Performance Measures
		1.3.2.1.3.4.2	Analyze Requirements Using Models, Simulations, and Prototyping
		1.3.2.1.3.4.3	Perform a Risk Assessment on Requirements and Functional Architecture
		1.3.2.1.3.4.4	Perform a Risk Assessment of Product Life Cycle Concepts
		1.3.2.1.3.4.5	Evaluate Results of Models, Simulations, Prototyping, and Risk Assessment
		1.3.2.1.3.4.6	Review and Approve Results of Models, Simulations, Prototyping, and Risk
			Assessment
		1.3.2.1.3.4.7	Baseline Results of Models, Simulations, Prototyping, and Risk Assessment
	1.3.2.1.3.5	-	uirements With Comprehensive Methods
		1.3.2.1.3.5.1	Receive Customer Needs, Stakeholder Needs, Customer Requirements, Product
			and Product Component Requirements, Interface Requirements, Functional
			Architecture, and Technical Performance Measures
		1.3.2.1.3.5.2	Determine Risk of Implementing Requirements on Intended Use Environment
		1.3.2.1.3.5.3	Evaluate Requirements Using Prototypes, Simulations, Models, Scenarios, and
			Storyboards
		1.3.2.1.3.5.4	Document Results of Requirements Validation
		1.3.2.1.3.5.5	Evaluate Results of Requirements Validation
		1.3.2.1.3.5.6	Review and Approve Results of Requirements Validation
1222	m 1 1 1 0 1 4 4 7	1.3.2.1.3.5.7	Baseline Results of Requirements Validation
1.3.2.2	Technical Solution (Pr	· ·	
		uct Componen	
	1.3.2.2.1.1	_	illed Alternative Solutions and Selection Criteria
		1.3.2.2.1.1.1	Identify Screening Criteria for Selecting Sets of Alternative Solutions Identify Computed and New Technologies for Computitive Advantage
		1.3.2.2.1.1.2	Identify Current and New Technologies for Competitive Advantage Generate Alternative Solutions
		1.3.2.2.1.1.3	
		1.3.2.2.1.1.4	Obtain Complete Requirements Allocation for Each Alternative Solution
		1.3.2.2.1.1.5	Develop Criteria for Selecting Best Alternative Solution Develop Timeline Secretics for Each Alternative Solution
		1.3.2.2.1.1.6	Develop Timeline Scenarios for Each Alternative Solution
		1.3.2.2.1.1.7	Evaluate Alternative Solutions

	1.3.2.2.1.1.8	Review and Approve Alternative Solutions
	1.3.2.2.1.1.9	Baseline Alternative Solutions
1.3.2.2.1.2	Evolve Opera	ational Concepts and Scenarios
	$1.3.2.2.1.\overline{2}.1$	Receive Product Component Requirements, Interface Requirements, Functional
	1.3.2.2.1.2.2	Requirements, and Operational Concept
	1.3.2.2.1.2.3	Analyze Product Component Requirements, Interface Requirements, Functional
	1.3.2.2.1.2.4	Requirements, and Operational Concept
	1.3.2.2.1.2.5	Develop Product Component Operational Concepts, Scenarios, and
		Environments
	1.3.2.2.1.2.6	Document Product Component Operational Concepts
	1.3.2.2.1.2.7	Evaluate Product Component Operational Concepts
	1.3.2.2.1.2.8	Review and Approve Product Component Operational Concepts
	1.3.2.2.1.2.9	Baseline Product Component Operational Concepts
1.3.2.2.1.3	Select Produc	ct Component Solutions
	1.3.2.2.1.3.1	Evaluate Each Alternative Solution or Set of Solutions
	1.3.2.2.1.3.2	Assess Adequacy of Selection Criteria
	1.3.2.2.1.3.3	Identify and Resolve Issues with Alternative Solutions and Requirements
	1.3.2.2.1.3.4	Select Best Set of Alternative Solutions
	1.3.2.2.1.3.5	Allocate Product Component Requirements to Set of Alternative Solutions
	1.3.2.2.1.3.6	Identify Product Component Solutions to be Reused or Acquired
	1.3.2.2.1.3.7	Document Product Component Solutions
	1.3.2.2.1.3.8	Review and Approve Product Component Solutions
	1.3.2.2.1.3.9	Baseline Product Component Solutions
Develop the	e Design	•
1.3.2.2.2.1	Design the Pr	roduct or Product Component
	1.3.2.2.2.1.1	Establish and Maintain Criteria for Evaluation of Product Component Designs
	1.3.2.2.2.1.2	Identify Design Methods for Product Components
	1.3.2.2.2.1.3	Assess Product Component Designs Against Design Standards, Design Criteria,
		and Allocated Requirements
	1.3.2.2.2.1.4	Document Product Component Designs
	1.3.2.2.2.1.5	Evaluate Product Component Designs
	1.3.2.2.2.1.6	Review and Approve Product Component Designs
	1.3.2.2.2.1.7	Baseline Product Component Designs
1.3.2.2.2.2	Establish a T	echnical Data Package
	1.3.2.2.2.2.1	Determine Number of Design Levels and Documentation Requirements
	1.3.2.2.2.2.2	Develop Detailed Design Descriptions Using Allocated Product Component
		Requirements, Architecture, and Higher Level Diagrams
	1322223	Document Design in Technical Data Package

1.3.2.2.2

		1.3.2.2.2.2.4	Document Rationale for Key Design Decisions
		1.3.2.2.2.5	Evaluate Technical Data Package
		1.3.2.2.2.2.6	Review and Approve Technical Data Package
		1.3.2.2.2.2.7	Baseline Technical Data Package
	1.3.2.2.2.3	Design Interfa	aces Using Criteria
		1.3.2.2.2.3.1	Receive Product Component Operational Concepts, Product Component
		1.3.2.2.2.3.2	Solutions, Product Component Designs, and Technical Data Packages
		1.3.2.2.2.3.3	Analyze Product Component Operational Concepts, Product Component
			Solutions, Product Component Designs, and Technical Data Package
		1.3.2.2.2.3.4	Define Interface Criteria and Interface Alternatives for Product Components
		1.3.2.2.2.3.5	Evaluate Alternative Interface Designs and Document Interface Designs
		1.3.2.2.2.3.6	Document Product Component Interface Designs
		1.3.2.2.2.3.7	Evaluate Product Component Interface Designs
		1.3.2.2.2.3.8	Review and Approve Product Component Interface Designs
		1.3.2.2.2.3.9	Baseline Product Component Interface Designs
	1.3.2.2.2.4	Perform Mak	e, Buy, or Reuse Analysis
		1.3.2.2.2.4.1	Receive and Analyze Product Component Operational Concepts, Product
			Component Solutions, Product Component Designs, Technical Data Packages,
			and Product Component Interface Designs
		1.3.2.2.2.4.2	Develop Criteria for the Development, Reuse, or Purchase of Product
			Component Designs
		1.3.2.2.2.4.3	Determine if Product Component Designs Should Be Developed, Reused, or
			Purchased
		1.3.2.2.2.4.4	Document Product Component Make or Buy Analysis
		1.3.2.2.2.4.5	Evaluate Product Component Make or Buy Analysis
		1.3.2.2.2.4.6	Review and Approve Product Component Make or Buy Analysis
		1.3.2.2.2.4.7	Baseline Product Component Make or Buy Analysis
1.3.2.2.3	Implement	the Product De	esign
	1.3.2.2.3.1	Implement th	e
		1.3.2.2.3.1.1	Receive and Analyze Product Component Operational Concepts, Product
			Component Solutions, Product Component Designs, Technical Data Packages,
			Product Component Interface Designs, and Product Component Make or Buy
			Analysis
		1.3.2.2.3.1.2	Identify or Develop Implementation Standards and Criteria
		1.3.2.2.3.1.3	Implement Product Components Using Implementation Standards and Criteria
		1.3.2.2.3.1.4	Evaluate Product Component Implementations
		1.3.2.2.3.1.5	Unit Test Product Component Implementations
		1.3.2.2.3.1.6	Review and Approve Product Component Implementations

			1.3.2.2.3.1.7	Baseline Product Component Implementations
		1.3.2.2.3.2	Develop Prod	luct Support Documentation
			1.3.2.2.3.2.1	Receive and Analyze Product Component Operational Concepts, Product
			1.3.2.2.3.2.2	Component Solutions, Product Component Designs, Technical Data Packages,
			1.3.2.2.3.2.3	Product Component Interface Designs, Product Component Make or Buy
			1.3.2.2.3.2.4	Analysis, Product Component Unit Test Results
			1.3.2.2.3.2.5	Identify or Develop Installation, Operation, and Maintenance Document
				Standards
			1.3.2.2.3.2.6	Develop Installation, Operation, and Maintenance Documents
			1.3.2.2.3.2.7	Evaluate Installation, Operation, and Maintenance Documents
			1.3.2.2.3.2.8	Review and Approve Installation, Operation, and Maintenance Documents
			1.3.2.2.3.2.9	Baseline Installation, Operation, and Maintenance Documents
1.3.2.3	Product I	ntegration (P	Procedure—9)	
	1.3.2.3.1	_	r Product Integ	
		1.3.2.3.1.1		tegration Sequence
			1.3.2.3.1.1.1	Identify Product Components for Integration
			1.3.2.3.1.1.2	Identify Verification Needed for Product Component Integration
			1.3.2.3.1.1.3	Identify Alternative Integration Sequences for Product Components
			1.3.2.3.1.1.4	Select Best Integration Sequence for Product Components
			1.3.2.3.1.1.5	Evaluate Product Integration Sequence
			1.3.2.3.1.1.6	Review and Approve Product Integration Sequence
			1.3.2.3.1.1.7	Baseline Product Integration Sequence
		1.3.2.3.1.2		Product Integration Environment
			1.3.2.3.1.2.1	Identify Requirements for Product Integration Environment
			1.3.2.3.1.2.2	Identify Verification Criteria and Procedures for Product Integration
				Environment
			1.3.2.3.1.2.3	Determine Whether to Make or Buy Product Integration Environment
			1.3.2.3.1.2.4	Develop Product Integration Environment
			1.3.2.3.1.2.5	Evaluate Product Integration Environment
			1.3.2.3.1.2.6	Review and Approve Product Integration Environment
			1.3.2.3.1.2.7	Baseline Product Integration Environment
		1.3.2.3.1.3		duct Integration Procedures and Criteria
			1.3.2.3.1.3.1	Establish Procedures for Product Component Integration
			1.3.2.3.1.3.2	Establish Criteria for Product Component Integration
			1.3.2.3.1.3.3	Establish Criteria for Validation of Product Component Integration
			1.3.2.3.1.3.4	Establish Criteria for Delivery of Product Component Integration
			1.3.2.3.1.3.5	Evaluate Product Component Integration Procedures and Criteria
			1.3.2.3.1.3.6	Review and Approve Product Component Integration Procedures and Criteria

1.3.2.3.1.3.7 Baseline Product Component Integration Procedures and Criteria **Ensure Interface Compatibility** 1.3.2.3.2 **Review Interface Descriptions for Completeness** 1.3.2.3.2.1 Receive Interface Requirements, Product Component Interface Designs, and 1.3.2.3.2.1.1 **Product Integration Environment Requirements** Analyze Interface Requirements, Product Component Interface Designs, and 1.3.2.3.2.1.2 **Product Integration Environment Requirements** Uniquely Identify Individual Product Component Interfaces 1.3.2.3.2.1.3 Analyze Product Component Implementations using Product Component 1.3.2.3.2.1.4 Interface Designs 1.3.2.3.2.1.5 **Evaluate Interface Descriptions** Review and Approve Interface Descriptions 1.3.2.3.2.1.6 1.3.2.3.2.1.7 **Baseline Interface Descriptions Manage Interfaces** 1.3.2.3.2.2 1.3.2.3.2.2.1 Receive Interface Requirements, Product Component Interface Designs, and **Product Integration Environment Requirements** 1.3.2.3.2.2.2 Analyze Changes to Interface Requirements, Product Component Interface Designs, and Product Integration Environment Requirements Analyze Interface Requirements, Product Component Interface Designs, and 1.3.2.3.2.2.3 **Product Integration Environment Requirements** Evaluate Interface Requirements, Product Component Interface Designs, and 1.3.2.3.2.2.4 **Product Integration Environment Requirements** 1.3.2.3.2.2.5 Review and Approve Interface Requirements, Product Component Interface Designs, and Product Integration Environment Requirements Baseline Interface Requirements, Product Component Interface Designs, and 1.3.2.3.2.2.6 **Product Integration Environment Requirements** Maintain a Repository of Changes to Interface Requirements, Product 1.3.2.3.2.2.7 Component Interface Designs, and Product Integration Environment Requirements 1.3.2.3.3 **Assemble Product Components and Deliver the Product** 1.3.2.3.3.1 Confirm Readiness of Product Components for Integration Track Status of Product Components 1.3.2.3.3.1.1 Place Product Components in Product Integration Environment 1.3.2.3.3.1.2 1.3.2.3.3.1.3 Confirm Receipt of Product Components Analyze Configuration Item Status 1.3.2.3.3.1.4 **Evaluate Product Components and Product Component Interfaces** 1.3.2.3.3.1.5

Review and Approve Product Component Readiness

Baseline Product Components for Integration

1.3.2.3.3.1.6

1.3.2.3.3.1.7

		1.3.2.3.3.2	Assemble Pro	educt Components
			1.3.2.3.3.2.1	Analyze Readiness of Product Integration Environment
			1.3.2.3.3.2.2	Analyze Readiness of Product Components for Integration
			1.3.2.3.3.2.3	Analyze Readiness of Product Integration Sequence
			1.3.2.3.3.2.4	Analyze Readiness of Product Integration Procedures and Criteria
			1.3.2.3.3.2.5	Integrate Product Components
			1.3.2.3.3.2.6	Evaluate Product Component Integration Results
			1.3.2.3.3.2.7	Baseline Product Component Integration Results
		1.3.2.3.3.3		embled Product Components
			1.3.2.3.3.3.1	Analyze Product Component Status
			1.3.2.3.3.3.2	Analyze Changes to Product Components During Integration
			1.3.2.3.3.3.3	Analyze Deviations from Product Integration Procedures and Criteria
			1.3.2.3.3.3.4	Analyze Product Component Integration Results
			1.3.2.3.3.3.5	Evaluate Product Component Status and Integration Results
			1.3.2.3.3.3.6	Review and Approve Product Component Status, Procedure and Criteria
				Deviations, and Integration Results
			1.3.2.3.3.3.7	Baseline Product Component Status and Integration Results
		1.3.2.3.3.4	_	Deliver the Product or Product Component
			1.3.2.3.3.4.1	Ensure Issues With Requirements, Designs, Products, Verification Results, and
				Documentation are Resolved
			1.3.2.3.3.4.2	Analyze Requirements for Product Packaging and Delivery
			1.3.2.3.3.4.3	Ensure Requirements for Product Packaging and Delivery are Satisfied
			1.3.2.3.3.4.4	Prepare Operational Site for Product Installation
			1.3.2.3.3.4.5	Deliver Product to Operational Site for Installation
			1.3.2.3.3.4.6	Install Product at Operational Site and Confirm Operation
			1.3.2.3.3.4.7	Review and Approve Packaged and Delivered Product or Product Component
1.3.2.4	Verificati	on (Procedur	,	
	1.3.2.4.1	_	· Verification	
		1.3.2.4.1.1		Products for Verification
			1.3.2.4.1.1.1	Identify Work Products for Verification
			1.3.2.4.1.1.2	Identify Requirements for Work Products
			1.3.2.4.1.1.3	Identify Verification Methods That Are Available for Use
			1.3.2.4.1.1.4	
			1.3.2.4.1.1.5	Evaluate Verification Methods for Work Products
			1.3.2.4.1.1.6	Review and Approve Verification Methods for Work Products
			1.3.2.4.1.1.7	Integrate Work Product Verification Methods into Project Plan
		1.3.2.4.1.2		Verification Environment
			1.3.2.4.1.2.1	Identify Requirements for Verification Environment

		1.3.2.4.1.2.2	Identify Resources for Verification Environment
		1.3.2.4.1.2.3	Identify Equipment and Tools for Verification Environment
		1.3.2.4.1.2.4	Acquire Equipment and Tools for Verification Environment
		1.3.2.4.1.2.5	Evaluate Verification Environment
		1.3.2.4.1.2.6	Review and Approve Verification Environment
		1.3.2.4.1.2.7	Baseline Verification Environment
	1.3.2.4.1.3	Establish Ver	ification Procedures and Criteria
		1.3.2.4.1.3.1	Generate Verification Procedures for Work Products and Commercial Off the Shelf Products
		1.3.2.4.1.3.2	Develop Verification Criteria for Work Products and Commercial Off the Shelf Products
		1.3.2.4.1.3.3	Identify Expected Results and Acceptable Tolerances for Verification Procedures
		1.3.2.4.1.3.4	Evaluate Verification Procedures and Criteria
		1.3.2.4.1.3.5	Review Verification Procedures and Criteria
		1.3.2.4.1.3.6	Baseline Verification Procedures and Criteria
1.3.2.4.2	Perform Pe	er Reviews	
	1.3.2.4.2.1	Prepare for P	eer Reviews
		1.3.2.4.2.1.1	Determine Type of Peer Reviews to Conduct
		1.3.2.4.2.1.2	Define Requirements for Data Collection During Peer Reviews
		1.3.2.4.2.1.3	Establish Entry and Exit Criteria for Peer Reviews
		1.3.2.4.2.1.4	Establish Criteria for Repeating Peer Reviews
		1.3.2.4.2.1.5	Establish Checklists for Peer Reviews
		1.3.2.4.2.1.6	Develop Schedules for Peer Reviews
		1.3.2.4.2.1.7	Verify Entry Criteria Before Peer Reviews
		1.3.2.4.2.1.8	Distribute Work Products in Advance of Peer Reviews
		1.3.2.4.2.1.9	Assign Roles for Conducting Peer Reviews
		1.3.2.4.2.1.10	Examine Work Products in Advance of Peer Reviews
	1.3.2.4.2.2	Conduct Peer	
		1.3.2.4.2.2.1	Perform Assigned Roles in Peer Reviews
		1.3.2.4.2.2.2	Identify and Document Defects During Peer Reviews
		1.3.2.4.2.2.3	Record Results of Peer Reviews
		1.3.2.4.2.2.4	Collect Data from Peer Reviews
		1.3.2.4.2.2.5	Identify Action Items and Communicate Issues During Peer Reviews
		1.3.2.4.2.2.6	Conduct Additional Peer Reviews
		1.3.2.4.2.2.7	Verify Exit Criteria for Peer Reviews
	1.3.2.4.2.3	Analyze Peer	
		1.3.2.4.2.3.1	Record Data for Preparation, Conduct, and Results of Peer Reviews

			1.3.2.4.2.3.2	Store Peer Review Data
			1.3.2.4.2.3.3	Protect Peer Review Data from Inappropriate Use
			1.3.2.4.2.3.4	Analyze Peer Review Data
			1.3.2.4.2.3.5	Evaluate Peer Review Data
			1.3.2.4.2.3.6	Review and Approve Peer Review Data
			1.3.2.4.2.3.7	Baseline Peer Review Data
	1.3.2.4.3	Verify Selec	cted Work Pro	ducts
		1.3.2.4.3.1	Perform Veri	fication
			1.3.2.4.3.1.1	Verify Selected Work Products Against Requirements
			1.3.2.4.3.1.2	Record Results of Verification
			1.3.2.4.3.1.3	Identify Action Items Resulting from Verification
			1.3.2.4.3.1.4	Document Methods Used for Verification
			1.3.2.4.3.1.5	Evaluate Verification Methods
			1.3.2.4.3.1.6	Review and Approve Verification Methods
			1.3.2.4.3.1.7	Baseline Verification Methods
		1.3.2.4.3.2	•	fication Results and Identify Corrective Action
			1.3.2.4.3.2.1	Compare Actual Results to Expected Results
			1.3.2.4.3.2.2	Identify Products Not Meeting Requirements and Problems With Verification
				Procedures
			1.3.2.4.3.2.3	Analyze Verification Data on Defects
			1.3.2.4.3.2.4	Record Results of Verification Data on Defects in a Report
			1.3.2.4.3.2.5	Evaluate Verification Report
			1.3.2.4.3.2.6	Review and Approve Verification Report
			1.3.2.4.3.2.7	Baseline Verification Report
			1.3.2.4.3.2.8	Compare Planned Versus Actual Verification on Defects
			1.3.2.4.3.2.9	Establish Plan to Resolve Defects Found By Verification
1.3.2.5		(Procedure-	•	
	1.3.2.5.1	Prepare for		
		1.3.2.5.1.1		ts for Validation
			1.3.2.5.1.1.1	Identify Project Requirements for Validation
			1.3.2.5.1.1.2	Determine Required Categories for Validation
			1.3.2.5.1.1.3	Select the Product and Product Components for Validation
			1.3.2.5.1.1.4	Select Methods for Product and Product Component Validation
			1.3.2.5.1.1.5	Evaluate Requirements, Categories, Selected Products and Product Components, and Methods for Validation
			1.3.2.5.1.1.6	Review and Approve Requirements, Categories, Selected Products and Product Components, and Methods for Validation
				-

		1.3.2.5.1.1.7	Baseline Requirements, Categories, Selected Products and Product
			Components, and Methods for Validation
	1.3.2.5.1.2	Establish the	Validation Environment
		1.3.2.5.1.2.1	Identify Requirements for Validation Environment
		1.3.2.5.1.2.2	Identify Customer Supplied Products for Validation Environment
		1.3.2.5.1.2.3	Identify Reusable Items for Validation Environment
		1.3.2.5.1.2.4	Identify Test Equipment and Tools for Validation Environment
		1.3.2.5.1.2.5	Identify Resources for Validation Environment
		1.3.2.5.1.2.6	Plan Resource Availability for Validation Environment
		1.3.2.5.1.2.7	Evaluate Validation Environment
		1.3.2.5.1.2.8	Review and Approve Validation Environment
		1.3.2.5.1.2.9	Baseline Validation Environment
	1.3.2.5.1.3	Establish Val	idation Procedures and Criteria
		1.3.2.5.1.3.1	Review Requirements for Products and Product Components
		1.3.2.5.1.3.2	Document Required Environment, Operational Scenario, Procedures, Inputs,
			Outputs, and Criteria for Products and Product Components
		1.3.2.5.1.3.3	Assess Maturity of Product and Product Component Designs
		1.3.2.5.1.3.4	Develop Validation Procedures and Criteria
		1.3.2.5.1.3.5	Evaluate Validation Procedures and Criteria
		1.3.2.5.1.3.6	Review and Approve Validation Procedures and Criteria
		1.3.2.5.1.3.7	Baseline Validation Procedures and Criteria
1.3.2.5.2			act Components
	1.3.2.5.2.1	Perform Valid	
		1.3.2.5.2.1.1	Validate Selected Work Products Against Requirements
		1.3.2.5.2.1.2	Record Results of Validation
		1.3.2.5.2.1.3	Identify Action Items Resulting from Validation
		1.3.2.5.2.1.4	Document Methods Used for Validation
		1.3.2.5.2.1.5	Evaluate Validation Methods
		1.3.2.5.2.1.6	Review and Approve Validation Methods
		1.3.2.5.2.1.7	Baseline Validation Methods
	1.3.2.5.2.2	Analyze Valid	
		1.3.2.5.2.2.1	Compare Actual Results to Expected Results
		1.3.2.5.2.2.2	Identify Products Not Meeting Requirements and Problems With Validation
			Procedures
		1.3.2.5.2.2.3	Analyze Validation Data on Defects
		1.3.2.5.2.2.4	Record Results of Validation Data on Defects in a Report
		1.3.2.5.2.2.5	Evaluate Validation Report
		1.3.2.5.2.2.6	Review and Approve Validation Report

			1.3.2.5.2.2.7	Baseline Validation Report
			1.3.2.5.2.2.8	Compare Planned Versus Actual Validation on Defects
			1.3.2.5.2.2.9	Establish Plan to Resolve Defects Found By Validation
1.3.2.6	Organiza	tional Proces	s Focus (Proce	dure—7)
	1.3.2.6.1			vement Opportunities
				ganizational Process Needs
			1.3.2.6.1.1.1	Identify Policies, Standards, and Business Objectives of Organization Process
			1.3.2.6.1.1.2	Identify Best Practices for Organization Process
			1.3.2.6.1.1.3	Determine Performance Objectives and Characteristics of Organization Proces
			1.3.2.6.1.1.4	Document Organization Process Needs and Objectives
			1.3.2.6.1.1.5	Evaluate Organization Process Needs and Objectives
			1.3.2.6.1.1.6	Review and Approve Organization Process Needs and Objectives
			1.3.2.6.1.1.7	Baseline Organization Process Needs and Objectives
		1.3.2.6.1.2	Appraise the	Organization's Processes
			1.3.2.6.1.2.1	Obtain Sponsorship for Appraisal of Organization Process
			1.3.2.6.1.2.2	Define Scope for Appraisal of Organization Process
			1.3.2.6.1.2.3	Determine Method and Criteria for Appraisal of Organization Process
			1.3.2.6.1.2.4	Plan, Schedule, and Prepare for Appraisal of Organization Process
			1.3.2.6.1.2.5	Conduct Appraisal of Organization Process
			1.3.2.6.1.2.6	Document Findings for Appraisal of Organization Process
			1.3.2.6.1.2.7	Baseline Findings for Appraisal of Organization Process
		1.3.2.6.1.3	Identify the (Organization's Process Improvements
			1.3.2.6.1.3.1	Analyze Findings from Appraisal of Organization Process
			1.3.2.6.1.3.2	Determine Candidate Improvements to Organization Process
			1.3.2.6.1.3.3	Prioritize Candidate Improvements to Organization Process
			1.3.2.6.1.3.4	Document Improvements to Organization Process
			1.3.2.6.1.3.5	Evaluate Improvements to Organization Process
			1.3.2.6.1.3.6	Review and Approve Improvements to Organization Process
			1.3.2.6.1.3.7	Baseline Improvements to Organization Process
	1.3.2.6.2	Plan and In	nplement Proc	ess Improvement Activities
		1.3.2.6.2.1	Establish Pro	ocess Action Plans
			1.3.2.6.2.1.1	Receive and Analyze Improvements to Organization Process
			1.3.2.6.2.1.2	Identify Strategies, Approaches, and Actions for Improvements to Organizatio
				Process
			1.3.2.6.2.1.3	Establish Action Teams to Implement Improvements to Organization Process
			1.3.2.6.2.1.4	Document Process Action Plans
			1.3.2.6.2.1.5	Evaluate Process Action Plans
			1.3.2.6.2.1.6	Review and Approve Process Action Plans

1.3.2.6.2	.1.7 Baseline Process Action Plans
1.3.2.6.2.2 Impleme	ent Process Action Plans
1.3.2.6.2	2.1 Negotiate Commitments to Process Action Plans
1.3.2.6.2	2.2 Track Progress and Commitments to Process Action Plans
1.3.2.6.2	2.3 Conduct Joint Reviews to Monitor Process Action Plans
1.3.2.6.2	2.4 Conduct Pilots to Implement Process Action Plans
1.3.2.6.2	2.5 Review Activities of Process Action Plans
1.3.2.6.2	2.6 Identify, Track, and Close Issues with Process Action Plans
1.3.2.6.2	2.7 Evaluate Results of Implementing Process Action Plans
1.3.2.6.2.3 Deploy (Organizational Process Assets
1.3.2.6.2	.3.1 Deploy Organizational Process Assets, Methods, and Tools
1.3.2.6.2	.3.2 Deploy Improvements to Organizational Process Assets, Methods, and Tools
1.3.2.6.2	.3.3 Document Changes to Organizational Process Assets, Methods, and Tools
1.3.2.6.2	.3.4 Guide and Consult on Use of Organizational Process Assets, Methods, and
	Tools
1.3.2.6.2	.3.5 Evaluate Deployment of Organization Process Assets
1.3.2.6.2	.3.6 Review and Approve Deployment of Organization Process Assets
1.3.2.6.2	.3.7 Baseline Deployed Organization Process Assets
1.3.2.6.2.4 Incorpor	rate Process-Related Experiences into the Organizational Process Assets
1.3.2.6.2	4.1 Periodically Review Effectiveness and Suitability of Organizational Process Assets
1.3.2.6.2	.4.2 Solicit Feedback on Use of Organizational Process Assets
1.3.2.6.2	<u> </u>
1.3.2.6.2	_
1.3.2.6.2	.4.5 Appraise Use of Organizational Process Assets
1.3.2.6.2	.4.6 Solicit Proposals to Improve Organizational Process Assets
1.3.2.6.2	.4.7 Maintain Records of Reviews, Feedback, Lessons Learned, Appraisals, and
	Process Improvement Proposals for Organizational Process Assets
1.3.2.7 Organizational Process Definition	on (Procedure—5)
1.3.2.7.1 Create Organization	al Process Assets
1.3.2.7.1.1 Establish	n Standard Processes
1.3.2.7.1	.1.1 Identify Constituent Process Elements of Organization Standard Process
1.3.2.7.1	1.2 Identify Critical Attributes and Relationships of Process Elements
1.3.2.7.1	1.3 Evaluate Compliance of Process Elements with Policies, Standards, Models,
	and Business Needs and Objectives
1.3.2.7.1	
1.3.2.7.1	6
1.3.2.7.1	1.6 Review and Approve Organization Standard Process

	1.3.2.7.1.1.7	Baseline Organization Standard Process					
1.3.2.7.1.2	Establish Life	Cycle Model Descriptions					
	1.3.2.7.1.2.1	Identify and Evaluate Needs of Projects and Organization					
	1.3.2.7.1.2.2	Identify Industry, Customer, and Technical Standards for Life Cycle Models					
	1.3.2.7.1.2.3	Evaluate, Select, and Instantiate Life Cycle Model Descriptions					
	1.3.2.7.1.2.4	Document Life Cycle Model Descriptions					
	1.3.2.7.1.2.5	Evaluate Life Cycle Model Descriptions					
	1.3.2.7.1.2.6	Review and Approve Life Cycle Model Descriptions					
	1.3.2.7.1.2.7	Baseline Life Cycle Model Descriptions					
1.3.2.7.1.3	Establish Tail	oring Criteria and Guidelines					
	1.3.2.7.1.3.1	Create Selection Criteria and Procedures for Tailoring Organization Standard					
		Process					
	1.3.2.7.1.3.2	Create Standards for Documenting Organization Standard Process					
	1.3.2.7.1.3.3	Create Procedures for Waivers to Organization Standard Process					
	1.3.2.7.1.3.4	Document Tailoring Guidelines and Criteria					
	1.3.2.7.1.3.5	Evaluate Tailoring Guidelines and Criteria					
	1.3.2.7.1.3.6	Review and Approve Tailoring Guidelines and Criteria					
	1.3.2.7.1.3.7	Baseline Tailoring Guidelines and Criteria					
1.3.2.7.1.4		Establish the Organization's Measurement Repository					
	1.3.2.7.1.4.1	Determine Measurement Storage, Retrieval, and Analysis Needs of					
		Organization					
	1.3.2.7.1.4.2	Define a Common Set of Process and Product Measures for Organization					
		Standard Process					
	1.3.2.7.1.4.3	Design and Implement a Measurement Repository					
	1.3.2.7.1.4.4	Create Procedures for Storing, Updating, and Retrieving Measures					
	1.3.2.7.1.4.5	Evaluate Common Set of Process and Product Measures, and Procedures for					
		Storing, Updating, and Retrieving Measures					
	1.3.2.7.1.4.6	Review and Approve Common Set of Process and Product Measures,					
		Procedures for Storing, Updating, and Retrieving Measures, and Organization					
		Measurement Repository					
	1.3.2.7.1.4.7	Baseline Common Set of Process and Product Measures, Procedures for					
		Storing, Updating, and Retrieving Measures, and Organization Measurement					
		Repository					
1.3.2.7.1.5		Organization's Process Asset Library					
	1.3.2.7.1.5.1	Design and Implement Organization Process Asset Library					
	1.3.2.7.1.5.2	Create Criteria for Adding Work Products to Organization Process Asset					
	1227172	Library					
	1.3.2.7.1.5.3	Create Procedures for Storing and Retrieving Work Products					

			1.3.2.7.1.3.4	Enter work Products Into Organization Process Asset Library
			1.3.2.7.1.5.5	Evaluate Organization Process Asset Library, Criteria for Adding Work
				Products, Procedures for Storing and Retrieving Work Products, and Work
				Products
			1.3.2.7.1.5.6	Review and Approve Organization Process Asset Library, Criteria for Adding
				Work Products, Procedures for Storing and Retrieving Work Products, and
				Work Products
			1.3.2.7.1.5.7	Baseline Organization Process Asset Library, Criteria for Adding Work
				Products, Procedures for Storing and Retrieving Work Products, and Work
				Products
1.3.2.8	Organizat	tional Trainii	ng (Procedure-	–7)
	1.3.2.8.1	Establish a	n Organization	al Training Capability
		1.3.2.8.1.1	Establish the	Strategic Training Needs
			1.3.2.8.1.1.1	Identify Training Needs by Analyzing Strategic Business Objectives and
				Process Improvement Plan
			1.3.2.8.1.1.2	Determine Roles and Skills Needed for Organization Standard Process
			1.3.2.8.1.1.3	Identify Training Needs for Roles and Skills of Organization Standard Process
			1.3.2.8.1.1.4	Document Organization Training Needs
			1.3.2.8.1.1.5	Evaluation Organization Training Needs
			1.3.2.8.1.1.6	Review and Approve Organization Training Needs
			1.3.2.8.1.1.7	Baseline Organization Training Needs
		1.3.2.8.1.2		hich Training Needs Are the Responsibility of the Organization
			1.3.2.8.1.2.1	Identify Training Needs Project and Support Group Objectives and Plans
			1.3.2.8.1.2.2	Determine Roles and Skills Needed to Support Projects and Support Groups
			1.3.2.8.1.2.3	Identify Training Needs for Roles and Skills of Projects and Support Groups
			1.3.2.8.1.2.4	Document Project and Support Group Training Needs
			1.3.2.8.1.2.5	Evaluation Project and Support Group Training Needs
			1.3.2.8.1.2.6	Review and Approve Project and Support Group Training Needs
			1.3.2.8.1.2.7	Baseline Project and Support Group Training Needs
		1.3.2.8.1.3	_	ganizational Training Tactical Plan
			1.3.2.8.1.3.1	Analyze Organization, Project, and Support Group Training Needs
			1.3.2.8.1.3.2	Identify Topics, Schedules, and Methods for Training
			1.3.2.8.1.3.3	Identify material requirements and Quality Standards, Tasks, Roles,
				Responsibilities, and Resources for Training
			1.3.2.8.1.3.4	Document Organizational Training Tactical Plan
			1.3.2.8.1.3.5	Evaluate Organizational Training Tactical Plan
			1.3.2.8.1.3.6	Review and Approve Organizational Training Tactical Plan
			1.3.2.8.1.3.7	Baseline Organizational Training Tactical Plan

	1.3.2.8.1.4	Establish Training Capability		
		1.3.2.8.1.4.1	Select Approaches to Satisfy Organization Training Needs	
		1.3.2.8.1.4.2	Determine Whether to Develop or Acquire Training Materials	
		1.3.2.8.1.4.3	Develop or Acquire Training Materials	
		1.3.2.8.1.4.4	Develop or Acquire Training Instructors	
		1.3.2.8.1.4.5	Evaluate Training Materials	
		1.3.2.8.1.4.6	Review and Approve Training Materials	
		1.3.2.8.1.4.7	Baseline Training Materials	
1.3.2.8.2	Provide Ne	cessary Trainii	ng	
	1.3.2.8.2.1	Deliver Train	ning	
		1.3.2.8.2.1.1	Identify Recipients of Training	
		1.3.2.8.2.1.2	Identify Training Instructors and Resources	
		1.3.2.8.2.1.3	Schedule Training	
		1.3.2.8.2.1.4	Conduct Training	
		1.3.2.8.2.1.5	Evaluate Training	
		1.3.2.8.2.1.6	Review and Approve Training Results	
		1.3.2.8.2.1.7	Baseline Training Results	
	1.3.2.8.2.2	Establish Tra	nining Records	
		1.3.2.8.2.2.1	Identify and Analyze Training Attendance	
		1.3.2.8.2.2.2	Identify and Analyze Training Waivers	
		1.3.2.8.2.2.3	Identify Planned Versus Actual Training Recipients	
		1.3.2.8.2.2.4	Document Training Records	
		1.3.2.8.2.2.5	Evaluate Training Records	
		1.3.2.8.2.2.6	Review and Approve Training Records	
		1.3.2.8.2.2.7	Baseline Training Records	
	1.3.2.8.2.3	Assess Training Effectiveness		
		1.3.2.8.2.3.1	Identify and Analyze Training Results and Records	
		1.3.2.8.2.3.2	Identify Criteria for Assessing Effectiveness of Training	
		1.3.2.8.2.3.3	Develop Survey Instruments to Assess Effectiveness of Training	
		1.3.2.8.2.3.4	Administer Survey Instruments to Training Recipients Following Projects	
		1.3.2.8.2.3.5	Evaluate Training Survey Results	
		1.3.2.8.2.3.6	Review and Approve Training Survey Results	
		1.3.2.8.2.3.7	Baseline Training Survey Results	
Integrated	d Project Ma	nagement (Pro	cedure—13)	
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1.3.2.9

Use the Project's Defined Process

1.3.2.9.1.1 Establish the Project's Defined Process

1.3.2.9.1.1.1 Select Life Cycle Models from Organization Process Asset Library

	1.3.2.9.1.1.2	Select Process Elements, Work Products, and Data from Organization Process			
		Asset Library			
	1.3.2.9.1.1.3	Tailor Life Cycle Models, Process Elements, Work Products, and Data			
	1.3.2.9.1.1.4	Document Project Defined Process			
	1.3.2.9.1.1.5	Evaluate Project Defined Process			
	1.3.2.9.1.1.6	Review and Approve Project Defined Process			
	1.3.2.9.1.1.7	Baseline Project Defined Process			
1.3.2.9.1.2	Use Organiza	tional Process Assets for Planning Project Activities			
	1.3.2.9.1.2.1	Use Life Cycle Models as a Basis for Estimating			
	1.3.2.9.1.2.2	Use Process Elements, Work Products, and Data as a Basis for Estimating			
	1.3.2.9.1.2.3	Use Data from Organization Measurement Repository as a Basis for Estimating			
	1.3.2.9.1.2.4	Product Project Estimates			
	1.3.2.9.1.2.5	Evaluate Project Estimates			
	1.3.2.9.1.2.6	Review and Approve Project Estimates			
	1.3.2.9.1.2.7	Baseline Project Estimates			
1.3.2.9.1.3	Integrate Plan	ns			
	1.3.2.9.1.3.1	Integrate Support Plans Into Project Plans			
	1.3.2.9.1.3.2	Incorporate Measures and Measurement Activities Into Project Plans			
	1.3.2.9.1.3.3	Identify and Analyze Project, Process, and Product Risks			
	1.3.2.9.1.3.4	Create a Project Schedule			
	1.3.2.9.1.3.5	Incorporate Peer Review Plans Into Project Plans			
	1.3.2.9.1.3.6	Incorporate Training Plans Into Project Plans			
	1.3.2.9.1.3.7	Establish Entry and Exit Criteria for Tasks			
	1.3.2.9.1.3.8	Evaluate Requirements With Stakeholder and Support Plans			
	1.3.2.9.1.3.9	Identify Stakeholder Conflict Resolution Procedures			
	1.3.2.9.1.3.10	Develop Integrated Project Plans			
	1.3.2.9.1.3.11	Evaluate Integrated Project Plans			
	1.3.2.9.1.3.12				
		Baseline Integrated Project Plans			
1.3.2.9.1.4		roject Using the Integrated Plans			
	1.3.2.9.1.4.1	Use Work Products from Organization Process Asset Library			
	1.3.2.9.1.4.2	Monitor and Control Project Activities			
	1.3.2.9.1.4.3	Obtain and Analyze Base and Derived Measures to Manage Project Activities			
	1.3.2.9.1.4.4	Analyze Adequacy of Tool, Network, Equipment, Training, and Support			
	1000115	Environment			
	1.3.2.9.1.4.5	Periodically Review Project Performance with Stakeholders			
	1.3.2.9.1.4.6	Modify Project Plan			
	1.3.2.9.1.4.7	Evaluate Project Plan			

		1.3.2.9.1.4.8	Review and Approve Project Plan	
		1.3.2.9.1.4.9	Baseline Project Plan	
	1.3.2.9.1.5	Contribute to	the Organizational Process Assets	
		1.3.2.9.1.5.1	Identify Improvements to Work Products in Organization Process Asset Library	
		1.3.2.9.1.5.2	Submit Actual Process and Product Measures to Organization Measurement	
			Repository	
		1.3.2.9.1.5.3	Submit Project Work Products to Organization Process Asset Library	
		1.3.2.9.1.5.4	Document Lessons Learned from Projects	
		1.3.2.9.1.5.5	Evaluate Lessons Learned	
		1.3.2.9.1.5.6	Review and Approve Lessons Learned	
		1.3.2.9.1.5.7	Baseline Lessons Learned	
1.3.2.9.2	Coordinate	and Collabora	te with Relevant Stakeholders	
	1.3.2.9.2.1	Manage Stak	eholder Involvement	
		1.3.2.9.2.1.1	Identify Participating Stakeholders in Projects	
		1.3.2.9.2.1.2	Verify That Work Products Satisfy Commitments	
		1.3.2.9.2.1.3	Identify Problems With Product and Product Component Requirements,	
			Architectures, and Designs	
		1.3.2.9.2.1.4	Identify Recommendations to Resolve Problems With Product and Product	
			Component Requirements, Architectures, and Designs	
		1.3.2.9.2.1.5	Resolve Problems With Product and Product Component Requirements,	
			Architectures, and Designs	
		1.3.2.9.2.1.6	Document Stakeholder Involvement Data	
		1.3.2.9.2.1.7	Evaluate Stakeholder Involvement Data	
		1.3.2.9.2.1.8	Review and Approve Stakeholder Involvement Data	
		1.3.2.9.2.1.9	Baseline Stakeholder Involvement Data	
	1.3.2.9.2.2	Manage Depe		
		1.3.2.9.2.2.1	Conduct Reviews With Relevant Stakeholders	
		1.3.2.9.2.2.2	Identify Critical Dependencies	
		1.3.2.9.2.2.3	Establish Need and Plan Dates for Critical Dependencies	
		1.3.2.9.2.2.4	Document Critical Dependencies and Commitments	
		1.3.2.9.2.2.5	Evaluate Critical Dependencies and Commitments	
		1.3.2.9.2.2.6	Review and Approve Critical Dependencies and Commitments	
			Baseline Critical Dependencies and Commitments	
	1.3.2.9.2.3		dination Issues	
		1.3.2.9.2.3.1	Identify and Document Coordination Issues	
		1.3.2.9.2.3.2	Evaluate Coordination Issues	
		1.3.2.9.2.3.3	Review and Approve Coordination Issues	
		1.3.2.9.2.3.4	Baseline Coordination Issues	

	1.3.2.9.4.2	Develop a Pro	eliminary Distribution of Requirements to Integrated Teams
		1.3.2.9.4.1.9	Baseline Integrated Team Structure
		1.3.2.9.4.1.8	Review and Approve Integrated Team Structure
		1.3.2.9.4.1.7	Evaluate Alternatives and Evaluate Integrated Team Structure
		1.3.2.9.4.1.6	Identify Alternative Integrated Team Structures
		1.3.2.9.4.1.5	Review and Confirm Project Shared Vision
		1.3.2.9.4.1.4	Identify Relevant Work Products from Organization Process Asset Library
		1.3.2.9.4.1.3	Establish Responsibilities for Work Products
		1.3.2.9.4.1.2	Determine Resource Requirements and Risks
		1.3.2.9.4.1.1	Determine Risks in Products and Product Suites
	1.3.2.9.4.1		tegrated Team Structure for the Project
1.3.2.9.4	Organize Iı	ntegrated Tean	
		1.3.2.9.3.2.9	Verify Project Shared Vision is Agreed to by Stakeholders
		1.3.2.9.3.2.8	Communicate Project Shared Vision to Stakeholders
		1.3.2.9.3.2.7	Baseline Project Shared Vision
		1.3.2.9.3.2.6	Review and Approve Project Shared Vision
		1.3.2.9.3.2.5	Evaluate Project Shared Vision With Stakeholders
		1.3.2.9.3.2.4	Develop Project Shared Vision With Stakeholders
		1.3.2.9.3.2.3	Establish a Strategy for Communicating Project Shared Vision
		1.3.2.9.3.2.2	Articulate Project Mission, Vision, Values, and Objectives With Stakeholders
		1.3.2.9.3.2.1	Plan Workshops to Create Project Shared Vision With Stakeholders
	1.3.2.9.3.2		Project's Shared Vision
		1.3.2.9.3.1.7	Baseline Project Shared Vision Context
		1.3.2.9.3.1.6	Review and Approve Project Shared Vision Context
		1.3.2.9.3.1.5	Evaluate Project Shared Vision Context
		1.3.2.9.3.1.4	Create Project Shared Vision Context
		1.3.2.9.3.1.3	Elicit Project Perspectives and Aspirations from Relevant Stakeholders
		1.3.2.7.3.1.2	Conditions
		1.3.2.9.3.1.2	Identify Project Expectations, Constraints, Interfaces, and Operational
		1.3.2.9.3.1.1	Descriptions, and Operational Scenarios
	1.3.2.9.3.1	1.3.2.9.3.1.1	et's Shared Vision Context Receive and Analyze Project Requirements, Project Plans, Interface
1.3.2.9.3		•	Vision for IPPD
1 2 2 0 2	TI (I D	1.3.2.9.2.3.9	Communicate Status of Issues to Relevant Stakeholders
		1.3.2.9.2.3.8	Track Issues to Closure
		1.3.2.9.2.3.7	Address Irresolvable Issues With Senior Management
		1.3.2.9.2.3.6	Resolve Issues With Relevant Stakeholders
		1.3.2.9.2.3.5	Communicate Issues to Relevant Stakeholders

			1.3.2.9.4.2.1	Assemble Requirements and Interfaces for Integrated Teams
			1.3.2.9.4.2.2	Evaluate Integrated Team Structure Against Product Requirements
			1.3.2.9.4.2.3	Define Responsibilities and Authorities for Integrated Teams
			1.3.2.9.4.2.4	Designate Sponsor for Integrated Teams
			1.3.2.9.4.2.5	Evaluate Distribution of Authority, Responsibility, Work Product
				Requirements, Technical Interfaces, and Business Interfaces
			1.3.2.9.4.2.6	Review and Approve Distribution of Authority, Responsibility, Work Product
				Requirements, Technical Interfaces, and Business Interfaces
			1.3.2.9.4.2.7	Baseline Distribution of Authority, Responsibility, Work Product
				Requirements, Technical Interfaces, and Business Interfaces
		1.3.2.9.4.3	Establish Inte	egrated Teams
			1.3.2.9.4.3.1	Choose Integrated Team Leaders
			1.3.2.9.4.3.2	Allocate Responsibilities and Requirements to Integrated Teams
			1.3.2.9.4.3.3	Allocate Resources to Integrated Teams
			1.3.2.9.4.3.4	Create Integrated Teams
			1.3.2.9.4.3.5	Periodically Evaluate Integrated Teams
			1.3.2.9.4.3.6	Review Changes in Personnel, Responsibilities, and Tasks to Integrated Teams
			1.3.2.9.4.3.7	Manage Performance of Integrated Teams
1.3.2.10		agement (Pro	· ·	
	1.3.2.10.1	_	Risk Managen	
		1.3.2.10.1.1		sk Sources and Categories
				Evaluate Project Plans and Support Plans
				Identify Sources of Risks
				Identify Risk Categories
				Document Risk Sources and Categories
				Evaluate Risk Sources and Categories
				Review and Approve Risk Sources and Categories
				Baseline Risk Sources and Categories
		1.3.2.10.1.2	Define Risk P	
				Define Criteria for Evaluating and Quantifying Risk Likelihood and Severity
				Define Thresholds for Risk Categories
				Define Bounds and Boundary Conditions for Risk Thresholds
				Document Risk Parameters
				Evaluate Risk Parameters
				Review and Approve Risk Parameters
				Baseline Risk Parameters
		1.3.2.10.1.3		isk Management Strategy
			1.3.2.10.1.3.1	Receive and Analyze Project Plans, Support Plans, and Risk Sources, Risk

		1.3.2.10.1.3.2	Conditions Criteria, and Risk Thresholds and Boundary
		13210133	Identify Scope of Risk Management, Risk Methods and Tools, and Sources of
		1.3.2.10.1.3.3	Project Risks
		1.3.2.10.1.3.4	Identify Risk Categories, Parameters, Risk Mitigation Techniques, and
			Measures to Monitor Risk Status
		1.3.2.10.1.3.6	Document Risk Management Strategy
		1.3.2.10.1.3.7	Evaluate Risk Management Strategy
		1.3.2.10.1.3.8	Review and Approve Risk Management Strategy
		1.3.2.10.1.3.9	Baseline Risk Management Strategy
1.3.2.10.2		l Analyze Risks	
	1.3.2.10.2.1	Identify Risks	
			Identify Cost, Schedule, Performance, and Life Cycle Risks
			Review Environmental Factors Impacting Projects
			Review Work Breakdown Structures and Project Plans for Completeness
			Document Context, Conditions, and Consequences of Risks
			Identify Relevant Stakeholders Associated With Risks
			Document Risks
			Evaluate Risks
			Review and Approve Risks
			Baseline Risks
	1.3.2.10.2.2		egorize, and Prioritize Risks
			Receive, Review, and Analyze Risk and Risk Management Strategy
			Evaluate Risks Using Risks Using Risk Parameters
			Organize and Group Risks Into Risk Categories
			Prioritize Risks
			Document Evaluated, Categorized, and Prioritized Risks
			Review and Approve Evaluated, Categorized, and Prioritized Risks
			Baseline Evaluated, Categorized, and Prioritized Risks
1.3.2.10.3	Mitigate Ris		
	1.3.2.10.3.1	_	Mitigation Plans
			Determine Thresholds Triggering Risk Mitigation or Contingency Plans
			Identify Person or Group Responsible for Mitigating Each Risk
			Determine Cost to Benefit Ratio of Risk Mitigation Plans for Each Risk
			Develop Risk Mitigation Plans Containing Risk Contingency Plans
			Evaluate Risk Mitigation Plans Pavious and Approve Rick Mitigation Plans
			Review and Approve Risk Mitigation Plans
		1.5.2.10.5.1./	Baseline Risk Mitigation Plans

1.3.2.10.3.2 Implement Risk Mitigation Plans

- 1.3.2.10.3.2.1 Monitor Risk Status
- 1.3.2.10.3.2.2 Devise Methods for Tracking Open Risks and Action Items to Closure
- 1.3.2.10.3.2.3 Invoke Risk Handling Options When Risk Thresholds are Triggered
- 1.3.2.10.3.2.4 Establish a Schedules for Risk Handling Activities With Start and Finish Dates
- 1.3.2.10.3.2.5 Provide Resources for Risk Handling Activities
- 1.3.2.10.3.2.6 Collect Performance Measures on Risk Handling Activities
- 1.3.2.10.3.2.7 Evaluate Implementation Results of Risk Mitigation Plans
- 1.3.2.10.3.2.8 Review and Approve Implementation Results of Risk Mitigation Plans
- 1.3.2.10.3.2.9 Baseline Implementation Results of Risk Mitigation Plans

1.3.2.11 Integrated Teaming (Procedure—8)

1.3.2.11.1 Establish Team Composition

1.3.2.11.1.1 Identify Team Tasks

- 1.3.2.11.1.1.1 Receive and Evaluate Project Plans, System Requirements, and System Interface Descriptions
- 1.3.2.11.1.1.2 Define Team Tasks for Delivery of Assigned Work Products
- 1.3.2.11.1.1.3 Decide Which Tasks Need Individual or Team Input
- 1.3.2.11.1.4 Identify and Document Team Tasks
- 1.3.2.11.1.1.5 Evaluate Team Tasks
- 1.3.2.11.1.6 Review and Approve Team Tasks
- 1.3.2.11.1.1.7 Baseline Team Tasks

1.3.2.11.1.2 Identify Needed Knowledge and Skills

- 1.3.2.11.1.2.1 Identify Business Functions and Processes That Integrated Teams Must Have Knowledge Of
- 1.3.2.11.1.2.2 Identify Core Competencies on Which to Base the Activities of Integrated Teams
- 1.3.2.11.1.2.3 Establish Knowledge and Skill Profiles for Core and Extended Team Competencies
- 1.3.2.11.1.2.4 Define Staffing and Competency Requirements
- 1.3.2.11.1.2.5 Document Needed Knowledge and Skills
- 1.3.2.11.1.2.6 Evaluate Needed Knowledge and Skills
- 1.3.2.11.1.2.7 Review and Approve Needed Knowledge and Skills
- 1.3.2.11.1.2.8 Baseline Needed Knowledge and Skills

1.3.2.11.1.3 Assign Appropriate Team Members

- 1.3.2.11.1.3.1 Establish Criteria for Evaluating Team Members Against Knowledge and Skill Profiles
- 1.3.2.11.1.3.2 Use Criteria to Qualify Candidate Team Members Against Knowledge and Skill Profiles

- 1.3.2.11.1.3.3 Identify and Orient Team Members Best Suited to Contribute to Team Performance 1.3.2.11.1.3.4 Document Team Members 1.3.2.11.1.3.5 Assess and Determine Integrated Team Capability to Meet its Objectives 1.3.2.11.1.3.6 Review and Approve Team Members 1.3.2.11.1.3.7 Baseline Team Members 1.3.2.11.2 Govern Team Operation 1.3.2.11.2.1 Establish a Shared Vision 1.3.2.11.2.1.1 Convey Shared Vision Context to Team Members 1.3.2.11.2.1.2 Conduct Meetings or Workshops to Discuss Shared Vision 1.3.2.11.2.1.3 Articulate Shared Vision to Team Members 1.3.2.11.2.1.4 Demonstrate Relationship Between Shared Vision, Activities, and Tasks 1.3.2.11.2.1.5 Evaluate Effectiveness of Establishing a Shared Vision 1.3.2.11.2.1.6 Review and Approve Results of Establish a Shared Vision 1.3.2.11.2.1.7 Baseline Results of Establish a Shared Vision 1.3.2.11.2.2 Establish a Team Charter 1.3.2.11.2.2.1 Define and List Team Objectives 1.3.2.11.2.2.2 Identify Strategies for Achieving Team Objectives 1.3.2.11.2.2.3 Establish Team's Level of Empowerment and Independence 1.3.2.11.2.2.4 Identify How Team and Individual Performance Are Measured 1.3.2.11.2.2.5 Identify Critical Success Factors 1.3.2.11.2.2.6 Document Team Charter 1.3.2.11.2.2.7 Evaluate Team Charter 1.3.2.11.2.2.8 Review and Approve Team Charter 1.3.2.11.2.2.9 Baseline Team Charter 1.3.2.11.2.3 Define Roles and Responsibilities 1.3.2.11.2.3.1 Receive and Analyze Team Tasks, Knowledge and Skills, Members, Shared Vision, and Charter 1.3.2.11.2.3.2 Map Roles, Responsibilities, and Expertise of Team Members to Team Tasks and Deliverables 1.3.2.11.2.3.3 Define Working Relationship and Report Structure for Team Members 1.3.2.11.2.3.4 Document Team Roles and Responsibilities 1.3.2.11.2.3.5 Evaluate Team Roles and Responsibilities 1.3.2.11.2.3.6 Review and Approve Team Roles and Responsibilities 1.3.2.11.2.3.7 Baseline Team Roles and Responsibilities 1.3.2.11.2.4 Establish Operating Procedures 1.3.2.11.2.4.1 Define Expectations and Rules to Guide Team Operation

1.3.2.11.2.4.3 Define How conflicts and Differences of Opinion Are Addressed and Resolved 1.3.2.11.2.4.4 Document Team Operating Procedures 1.3.2.11.2.4.5 Evaluate Team Operating Procedures 1.3.2.11.2.4.6 Review and Approve Team Operating Procedures 1.3.2.11.2.4.7 Baseline Team Operating Procedures 1.3.2.11.2.5 Collaborate Among Interfacing Teams 1.3.2.11.2.5.1 Establish and Maintain Ownership of Work Products Among Project Teams 1.3.2.11.2.5.2 Establish and Maintain Interfaces and Process to Exchange Inputs, Outputs, and **Work Products** 1.3.2.11.2.5.3 Develop, Communicate, and Distribute Commitment Lists and Work Plans for Work Products and Team Interfaces 1.3.2.11.2.5.4 Develop and Document Team Work Plans 1.3.2.11.2.5.5 Evaluate Team Work Plans 1.3.2.11.2.5.6 Review and Approve Team Work Plans 1.3.2.11.2.5.7 Baseline Team Work Plans **1.3.2.12** Analysis and Resolution (Procedure—6) 1.3.2.12.1 Evaluate Alternatives 1.3.2.12.1.1 Establish Guidelines for Decision Analysis 1.3.2.12.1.1.1 Receive and Evaluate Project Plans, System Requirements, Interface Requirements, and System Designs 1.3.2.12.1.1.2 Identify Key Decision Points Relating to Risk, Change Control, Scheduling, Implementation, and Cost 1.3.2.12.1.1.3 Incorporate Use of Guidelines Into Project Defined Process 1.3.2.12.1.1.4 Document Guidelines for Decision Analysis 1.3.2.12.1.1.5 Evaluate Guidelines for Decision Analysis 1.3.2.12.1.1.6 Review and Approve Guidelines for Decision Analysis 1.3.2.12.1.1.7 Baseline Guidelines for Decision Analysis 1.3.2.12.1.2.1 Identify Criteria for Evaluating Alternative Solutions 1.3.2.12.1.2.2 Define Range and Scale for Ranking Evaluation Criteria 1.3.2.12.1.2.3 Rank Criteria

1.3.2.12.1.2 Establish Evaluation Criteria

- 1.3.2.12.1.2.4 Assess Criteria and Relative Importance of Criteria
- 1.3.2.12.1.2.5 Document Rationale for Selection of Evaluation Criteria
- 1.3.2.12.1.2.6 Document Evaluation Criteria
- 1.3.2.12.1.2.7 Evaluate Evaluation Criteria
- 1.3.2.12.1.2.8 Review and Approve Evaluation Criteria
- 1.3.2.12.1.2.9 Baseline Evaluation Criteria

1.3.2.12.1.3 Identify Alternative Solutions

	1.3.2.12.1.3.1	Perform Literature Searches for Alternative Solutions				
	1.3.2.12.1.3.2	Solicit Alternatives from Stakeholders				
	1.3.2.12.1.3.3	Identify Alternative Solutions for Consideration				
	1.3.2.12.1.3.4	Document Alternative Solutions				
	1.3.2.12.1.3.5	Evaluate Alternative Solutions				
	1.3.2.12.1.3.6	Review and Approve Alternative Solutions				
	1.3.2.12.1.3.7	Baseline Alternative Solutions				
1.3.2.12.1.4	Select Evaluat	tion Methods				
	1.3.2.12.1.4.1	Identify List of Evaluation Methods Based on Decision Analysis Needs				
	1.3.2.12.1.4.2	Identify List of Evaluation Methods Based on Objectivity and Effectiveness				
	1.3.2.12.1.4.3	Determine Measures Needed to Support List of Evaluation Methods				
		Document List of Evaluation Methods				
	1.3.2.12.1.4.5	Evaluate List of Evaluation Methods				
		Review and Approve List of Evaluation Methods				
		Baseline List of Evaluation Methods				
1.3.2.12.1.5	Evaluate Alte					
		Evaluate Alternative Solutions Using Evaluation Criteria and Methods				
		Evaluate Assumptions and Supporting Evidence				
		Evaluate Level of Uncertainty with Alternative Solutions				
	1.3.2.12.1.5.4	Perform Simulations, Modeling, Prototypes, and Pilots to Evaluate Criteria,				
		Methods, and Solutions				
		Consider New Alternatives if Necessary				
		Document Results of Evaluating Alternatives				
		Evaluate Results of Evaluating Alternatives				
		Review and Approve Results of Evaluating Alternatives				
		Baseline Results of Evaluating Alternatives				
1.3.2.12.1.6	Select Solution					
		Obtain and Analyze Results of Evaluating Alternatives				
		Assess Risks of Implementing Recommended Alternatives				
		Determine Validity of Results of Evaluating Alternatives				
		Document Results and Rationale for Recommended Alternatives				
		Evaluate Results and Rationale for Recommended Alternatives				
		Review and Approve Results and Rationale for Recommended Alternatives				
		Baseline Results and Rationale for Recommended Alternatives				
nal Environment for Integration (Procedure—6)						

1.3.2.13 Organization

1.3.2.13.1 Provide IPPD Infrastructure

1.3.2.13.1.1 Establish the Organization's Shared Vision

	1.3.2.13.1.1.1	Identify Expectations, Constraints, Interfaces, and Boundary Conditions of
		Organization's Shared Vision
	1.3.2.13.1.1.2	Create Shared Vision for Organization
	1.3.2.13.1.1.3	Evaluate Shared Vision for Organization
	1.3.2.13.1.1.4	Review and Approve Shared Vision for Organization
	1.3.2.13.1.1.5	Baseline Shared Vision for Organization
	1.3.2.13.1.1.6	Communicate Shared Vision Internally and Externally
	1.3.2.13.1.1.7	Ensure Organization Practices are Aligned with Shared Vision
	1.3.2.13.1.1.8	Periodically Review and Update Shared Vision
	1.3.2.13.1.1.9	Provide Guidelines for Implementing Shared Vision
1.3.2.13.1.2	Establish an I	ntegrated Work Environment
	1.3.2.13.1.2.1	Determine Requirements for Integrated Work Environment
	1.3.2.13.1.2.2	Identify New Technologies, Tools, and Resources for Integrated Work
		Environment
	1.3.2.13.1.2.3	Assess Effectiveness of Current Work Environment
	1.3.2.13.1.2.4	Plan, Design, and Implement Integrated Work Environment
	1.3.2.13.1.2.5	Evaluate Integrated Work Environment
	1.3.2.13.1.2.6	Review and Approve Integrated Work Environment
	1.3.2.13.1.2.7	Baseline Integrated Work Environment
	1.3.2.13.1.2.8	Maintain Integrated Work Environment
	1.3.2.13.1.2.9	Periodically Monitor and Evaluate Integrated Work Environment
1.3.2.13.1.3	Identify IPPD	-Unique Skill Requirements
	1.3.2.13.1.3.1	Identify IPPD Strategic and Tactical Training Needs
	1.3.2.13.1.3.2	Document IPPD Strategic and Tactical Training Needs
	1.3.2.13.1.3.3	Evaluate Strategic and Tactical Training Needs
	1.3.2.13.1.3.4	Review and Approve Strategic and Tactical Training Needs
	1.3.2.13.1.3.5	Baseline Strategic and Tactical Training Needs
	1.3.2.13.1.3.6	Incorporate IPPD Skills into Organization Strategic Training Needs
	1.3.2.13.1.3.7	Incorporate IPPD Skills into Organization Tactical Training Plan
Manage Peo	ple for Integra	ation
1.3.2.13.2.1	Establish Lea	dership Mechanisms
	1.3.2.13.2.1.1	Establish Guidelines for Empowering Individuals and Teams
	1.3.2.13.2.1.2	Determine Rules for Types and Classes of Decision Making
	1.3.2.13.2.1.3	Define Process for Using Decision Making Rules
	1.3.2.13.2.1.4	Define Process for Conflict Resolution of Decision Making
	1.3.2.13.2.1.5	Document Leadership Mechanisms and Guidelines
	1.3.2.13.2.1.6	Evaluate Leadership Mechanisms and Guidelines
	1.3.2.13.2.1.7	Review and Approve Leadership Mechanisms and Guidelines
	1.3.2.13.1.3 Manage Peo	1.3.2.13.1.1.2 1.3.2.13.1.1.3 1.3.2.13.1.1.4 1.3.2.13.1.1.5 1.3.2.13.1.1.6 1.3.2.13.1.1.7 1.3.2.13.1.1.9 1.3.2.13.1.2.1 1.3.2.13.1.2.1 1.3.2.13.1.2.2 1.3.2.13.1.2.3 1.3.2.13.1.2.4 1.3.2.13.1.2.5 1.3.2.13.1.2.6 1.3.2.13.1.2.6 1.3.2.13.1.2.9 1.3.2.13.1.2.9 1.3.2.13.1.3.1 1.3.2.13.1.3.1 1.3.2.13.1.3.1 1.3.2.13.1.3.2 1.3.2.13.1.3.5 1.3.2.13.1.3.5 1.3.2.13.1.3.6 1.3.2.13.1.3.7 Manage People for Integral 1.3.2.13.2.1.1 1.3.2.13.2.1.1 1.3.2.13.2.1

			1.3.2.13.2.1.8 Baseline Leadership Mechanisms and Guidelines		
		1.3.2.13.2.2		entives for Integration	
			1.3.2.13.2.2.1	Develop Recognition and Reward System for IPPD Teams	
			1.3.2.13.2.2.2	Develop Guidelines for Individual and Team Recognition	
			1.3.2.13.2.2.3	Define Processes for Integrated Team Leaders and Functional Managers	
			1.3.2.13.2.2.4	Establish Criteria for Identifying Positive Team Behavior	
			1.3.2.13.2.2.5	Document Policies and Procedures for Performance Appraisal and Recognition	
	1.3		1.3.2.13.2.2.6	Evaluate Policies and Procedures for Performance Appraisal and Recognition	
			1.3.2.13.2.2.7	Review and Approve Policies and Procedures for Performance Appraisal and	
				Recognition	
		1.3.2.13.2.2.8	Baseline Policies and Procedures for Performance Appraisal and Recognition		
		1.3.2.13.2.3	Establish Med	chanisms to Balance Team and Home Organization Responsibilities	
			1.3.2.13.2.3.1	Establish Guidelines Home Organization Responsibilities	
			1.3.2.13.2.3.2	Establish Guidelines for Team Management Responsibilities	
			1.3.2.13.2.3.3	Establish a Performance Review Process Using Inputs from Homes and Teams	
			1.3.2.13.2.3.4	Develop Guidelines for Managing Home and Team Responsibilities	
			1.3.2.13.2.3.5	Evaluate Guidelines for Managing Home and Team Responsibilities	
			1.3.2.13.2.3.6	Review and Approve Guidelines for Managing Home and Team	
				Responsibilities	
			1.3.2.13.2.3.7	Baseline Guidelines for Managing Home and Team Responsibilities	
Work Product (275)					
1.3.3.1	-	_	pment (Work Product—29)		
	1.3.3.1.1	_	stomer Requir	ements	
		1.3.3.1.1.1	Elicit Needs		
			1.3.3.1.1.1.1	Customer Needs	
		1.3.3.1.1.2	Collect Stakel		
			1.3.3.1.1.2.1		
		1.3.3.1.1.3	_	Customer Requirements	
			1.3.3.1.1.3.1	1	
			1.3.3.1.1.3.2	Customer Verification Constraints	
			1.3.3.1.1.3.3	Customer Validation Constraints	
	1.3.3.1.2	_	oduct Requiren		
		1.3.3.1.2.1		duct and Product Component Requirements	
			1.3.3.1.2.1.1	Derived Requirements	
			1.3.3.1.2.1.2	Product Requirements	
		122122	1.3.3.1.2.1.3	Product Component Requirements	
		1.3.3.1.2.2		uct Component Requirements	
			1331221	Requirement Allocation Tables	

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			1.3.3.1.2.2.2	Provisional Requirement Allocations	
			1.3.3.1.2.2.3	Design Constraints	
			1.3.3.1.2.2.4	Derived Requirements	
			1.3.3.1.2.2.5	Derived Requirements Relationships	
		1.3.3.1.2.3	Identify Inter	face Requirements	
			1.3.3.1.2.3.1	Interface Requirements	
	1.3.3.1.3	Analyze an	d Validate Reg	uirements	
		1.3.3.1.3.1	Establish Op	erational Concepts and Scenarios	
			1.3.3.1.3.1.1	Operational Concept	
			1.3.3.1.3.1.2	Product Installation, Operational, Maintenance, and Support Concepts	
			1.3.3.1.3.1.3	Disposal Concepts	
			1.3.3.1.3.1.4	Use Cases	
			1.3.3.1.3.1.5	Timeline Scenarios	
			1.3.3.1.3.1.6	New Requirements	
		1.3.3.1.3.2	Establish a D	efinition of Required Functionality	
			1.3.3.1.3.2.1	Functional Architecture	
			1.3.3.1.3.2.2	Activity Diagrams and Use Cases	
			1.3.3.1.3.2.3	Object Oriented Analysis	
		1.3.3.1.3.3	Analyze Requ		
			1.3.3.1.3.3.1	Requirements Defect Reports	
			1.3.3.1.3.3.2	Proposed Requirement Changes	
			1.3.3.1.3.3.3	Key Requirements	
			1.3.3.1.3.3.4	Technical Performance Measures	
		1.3.3.1.3.4	Analyze Requ	uirements to Achieve Balance	
			1.3.3.1.3.4.1	Assessment of Risks	
		1.3.3.1.3.5	Validate Req	uirements With Comprehensive methods	
			1.3.3.1.3.5.1	Record of Analysis Methods and Results	
1.3.3.2	Technical	Solution (W	ork Product—:	26)	
	1.3.3.2.1	Select Prod	luct Componen	at Solutions	
		1.3.3.2.1.1	Develop Deta	iled Alternative Solutions and Selection Criteria	
			1.3.3.2.1.1.1	Alternative Solution Screening Criteria	
			1.3.3.2.1.1.2	New Technology Evaluations	
				Alternative Solutions	
			1.3.3.2.1.1.4	Final Selection Criteria	
		1.3.3.2.1.2	Evolve Opera	ational Concepts and Scenarios	
			1.3.3.2.1.2.1	Product Component Operational Concepts, Scenarios, and Environments	
			1.3.3.2.1.2.2	Product Component Timeline Analyses	
			1.3.3.2.1.2.3	Use Cases	
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	1.3.3.2.1.3	Select Produc	Select Product Component Solutions			
		1.3.3.2.1.3.1	Product Component Selection Decisions			
		1.3.3.2.1.3.2	Requirement and Product Component Relationships			
		1.3.3.2.1.3.3	Solutions, Evaluations, and Rationale			
1.3.3.2.2	Develop the	Design				
	1.3.3.2.2.1	Design the Pr	oduct or Product Component			
		1.3.3.2.2.1.1	Product Architecture			
		1.3.3.2.2.1.2	Product Component Designs			
	1.3.3.2.2.2		echnical Data Package			
		1.3.3.2.2.2.1	Technical Data Package			
	1.3.3.2.2.3		aces Using Criteria			
		1.3.3.2.2.3.1	Interface Design Specifications			
		1.3.3.2.2.3.2	Interface Control Documents			
		1.3.3.2.2.3.3	Interface Specification Criteria			
		1.3.3.2.2.3.4	Interface Design Rationale			
	1.3.3.2.2.4		te, Buy, or Reuse Analysis			
		1.3.3.2.2.4.1	Design and Product Component Reuse Criteria			
		1.3.3.2.2.4.2	Make or Buy Analyses			
		1.3.3.2.2.4.3	COTS Product Component Selection Guidelines			
1.3.3.2.3	-		e Product Design			
	1.3.3.2.3.1	Implement the Design				
		1.3.3.2.3.1.1	Design Implementation			
	1.3.3.2.3.2	-	uct Support Documentation			
		1.3.3.2.3.2.1	End-User Training			
		1.3.3.2.3.2.2	User Manuals			
		1.3.3.2.3.2.3	Operator Manuals			
		1.3.3.2.3.2.4	Maintenance Manuals			
		1.3.3.2.3.2.5	Online Help Content			
		Vork Product—	•			
1.3.3.3.1	_	Product Integ				
	1.3.3.3.1.1		tegration Sequence			
		1.3.3.3.1.1.1	Product Integration Sequence			
	122212	1.3.3.3.1.1.2	Integration Sequence Rationale			
	1.3.3.3.1.2		Product Integration Environment			
		1.3.3.3.1.2.1	Verified Product Integration Environment			
	122212	1.3.3.3.1.2.2	Product Integration Environment Support Documentation			
	1.3.3.3.1.3		duct Integration Procedures and Criteria			
		1.3.3.3.1.3.1	Product Integration Procedures			

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		1.3.3.3.1.3.2	Product Integration Criteria		
1.3.3.3.2	Ensure Inte	erface Compatibility			
	1.3.3.3.2.1	Review Inter	face Descriptions for Completeness		
		1.3.3.3.2.1.1	Interface Categories		
		1.3.3.3.2.1.2	Interface Lists		
		1.3.3.3.2.1.3	Product Component and Product Integration Environment Interface Mapping		
	1.3.3.3.2.2	Manage Inter	faces		
		1.3.3.3.2.2.1	Product Component and External Environment Interface Relationships		
		1.3.3.3.2.2.2	Product Component Interface Relationships		
		1.3.3.3.2.2.3	Product Component Interfaces		
		1.3.3.3.2.2.4	Interface Control Working Group Meeting Reports		
		1.3.3.3.2.2.5	Interface Control Working Group Meeting Action Items		
		1.3.3.3.2.2.6	Application Program Interfaces (APIs)		
		1.3.3.3.2.2.7	Changed Interface Descriptions		
1.3.3.3.3	Assemble F		onents and Deliver the Product		
	1.3.3.3.3.1		diness of Product Components for Integration		
		1.3.3.3.3.1.1	Product Component Acceptance Documents		
		1.3.3.3.3.1.2	Delivery Receipts		
		1.3.3.3.3.1.3	Packing Lists		
		1.3.3.3.3.1.4	Exception Reports		
		1.3.3.3.3.1.5	Waivers		
	1.3.3.3.3.2	Assemble Pro	oduct Components		
		1.3.3.3.3.2.1	Assembled Products or Product Components		
	1.3.3.3.3.3		luate Assembled Product Components		
		1.3.3.3.3.3.1	Exception Reports		
		1.3.3.3.3.3.2	Interface Evaluation Reports		
		1.3.3.3.3.3	Product Integration Summaries		
	1.3.3.3.3.4	_	Deliver the Product or Product Component		
		1.3.3.3.4.1	Packaged Products or Product Components		
		1.3.3.3.4.2	Delivery Documentation		
	on (Work Pr				
1.3.3.4.1	-	r Verification			
	1.3.3.4.1.1		Products for Verification		
		1.3.3.4.1.1.1	Lists of Work Products		
		1.3.3.4.1.1.2	Work Product Verification Methods		
	1.3.3.4.1.2		Verification Environment		
		1.3.3.4.1.2.1	Verification Environment		
	1.3.3.4.1.3	Establish Ver	rification Procedures and Criteria		

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			1.3.3.4.1.3.1	Verification Procedures
			1.3.3.4.1.3.2	Verification Criteria
	1.3.3.4.2	Perform Pe	er Reviews	
		1.3.3.4.2.1	Prepare for I	Peer Reviews
			1.3.3.4.2.1.1	Peer Review Schedule
			1.3.3.4.2.1.2	Peer Review Checklist
			1.3.3.4.2.1.3	Work Product Entry and Exit Criteria
			1.3.3.4.2.1.4	Peer Review Completion Criteria
			1.3.3.4.2.1.5	Peer Review Training
			1.3.3.4.2.1.6	Work Product Lists
		1.3.3.4.2.2	Conduct Peer	
			1.3.3.4.2.2.1	
			1.3.3.4.2.2.2	Peer Review Issues
			1.3.3.4.2.2.3	
		1.3.3.4.2.3	Analyze Peer	
				Peer Review Data
				Peer Review Action Items
	1.3.3.4.3	•	cted Work Pro	
		1.3.3.4.3.1	Perform Veri	
			1.3.3.4.3.1.1	
			1.3.3.4.3.1.2	1
			1.3.3.4.3.1.3	Demonstrations
			1.3.3.4.3.1.4	Procedure Logs
		1.3.3.4.3.2	-	fication Results and Identify Corrective Action
			1.3.3.4.3.2.1	Analysis Reports
			1.3.3.4.3.2.2	Trouble Reports
			1.3.3.4.3.2.3	Change Requests
			1.3.3.4.3.2.4	Corrective Actions
1.3.3.5		a (Work Prod	•	
	1.3.3.5.1	Prepare for		
		1.3.3.5.1.1		ets for Validation
				Product and Product Components Lists
				Validation Methods
			1.3.3.5.1.1.3	Validation Requirements
		100516	1.3.3.5.1.1.4	Validation Constraints
		1.3.3.5.1.2		Validation Environment
		100516		Validation Environment
		1.3.3.5.1.3	Establish Val	lidation Procedures and Criteria

			1.3.3.5.1.3.1	Validation Procedures
			1.3.3.5.1.3.2	Validation Criteria
			1.3.3.5.1.3.3	Test and Evaluation Procedures
	1.3.3.5.2	Validate Pr	oduct or Prod	uct Components
		1.3.3.5.2.1	Perform Vali	dation
			1.3.3.5.2.1.1	Validation Reports
			1.3.3.5.2.1.2	Validation Results
			1.3.3.5.2.1.3	Validation Matrix
			1.3.3.5.2.1.4	Procedures Log
				Operational Demonstrations
		1.3.3.5.2.2		dation Results
			•	Validation Deficiency Reports
			1.3.3.5.2.2.2	Validation Issues
			1.3.3.5.2.2.3	Change Requests
1.3.3.6	Organizat	tional Proces	s Focus (Work	Product—20)
	1.3.3.6.1 Determine Process Improvement Opportunities			vement Opportunities
		1.3.3.6.1.1	Establish Org	ganizational Process Needs
			1.3.3.6.1.1.1	Organization Process Needs and Objectives
		1.3.3.6.1.2	Appraise the	Organization's Processes
			1.3.3.6.1.2.1	Organization Process Appraisal Plans
			1.3.3.6.1.2.2	Organization Appraisal Findings
			1.3.3.6.1.2.3	Organization Process Improvement Recommendations
		1.3.3.6.1.3	Identify the (Organization's Process Improvements
			1.3.3.6.1.3.1	Candidate Process Improvements Analysis
			1.3.3.6.1.3.2	Organization Process Improvements
	1.3.3.6.2	Plan and In	nplement Proc	ess Improvement Activities
		1.3.3.6.2.1	Establish Pro	ocess Action Plans
			1.3.3.6.2.1.1	Organization Process Action Plans
		1.3.3.6.2.2	Implement P	rocess Action Plans
			1.3.3.6.2.2.1	Process Action Team Commitments
			1.3.3.6.2.2.2	Process Action plan Implementation Status and Results
			1.3.3.6.2.2.3	Pilot Plans
		1.3.3.6.2.3	Deploy Organ	nizational Process Assets
			1.3.3.6.2.3.1	Organization Process Asset Deployment Plans
			1.3.3.6.2.3.2	Organization Process Asset Deployment Training
			1.3.3.6.2.3.3	Organization Process Asset Changes
			1.3.3.6.2.3.4	Organization Process Asset Deployment Support Materials
		1.3.3.6.2.4	Incorporate l	Process-Related Experiences into the Organizational Process Assets

			1.3.3.6.2.4.1	Process Improvement Proposals
			1.3.3.6.2.4.2	Lessons Learned
			1.3.3.6.2.4.3	Organization Process Asset Measurements
			1.3.3.6.2.4.4	Organization Process Asset Recommended Improvements
			1.3.3.6.2.4.5	Organization Process Improvement Activity Records
			1.3.3.6.2.4.6	Organization Process Asset Improvement Information
1.3.3.7	Organiza	tional Proces	s Definition (W	/ork Product—11)
	1.3.3.7.1	Create Org	ganizational Pr	ocess Assets
		1.3.3.7.1.1	Establish Sta	ndard Processes
			1.3.3.7.1.1.1	Organization Standard Processes
		1.3.3.7.1.2	Establish Life	e Cycle Model Descriptions
			1.3.3.7.1.2.1	Life Cycle Models
		1.3.3.7.1.3	Establish Tai	loring Criteria and Guidelines
			1.3.3.7.1.3.1	Organization Standard Process Tailoring Guidelines
		1.3.3.7.1.4	Establish the	Organization's Measurement Repository
			1.3.3.7.1.4.1	Organization Standard Process Common Measures
			1.3.3.7.1.4.2	Organization Measurement Repository Design
			1.3.3.7.1.4.3	Organization Measurement Repository
			1.3.3.7.1.4.4	Organization Measurement Data
		1.3.3.7.1.5		Organization's Process Asset Library
			1.3.3.7.1.5.1	Organization Process Asset Library Design
			1.3.3.7.1.5.2	Organization Process Asset Library
			1.3.3.7.1.5.3	Organization Process Asset Library Items
			1.3.3.7.1.5.4	Organization Process Asset Library Item Catalog
1.3.3.8	Organiza	tional Traini	ng (Work Prod	luct—13)
	1.3.3.8.1	Establish a	-	nal Training Capability
		1.3.3.8.1.1		Strategic Training Needs
			1.3.3.8.1.1.1	Training Needs
			1.3.3.8.1.1.2	Assessment Analysis
		1.3.3.8.1.2		Thich Training Needs Are the Responsibility of the Organization
			1.3.3.8.1.2.1	Project and Support Group Training Needs
			1.3.3.8.1.2.2	Training Commitments
		1.3.3.8.1.3		ganizational Training Tactical Plan
			1.3.3.8.1.3.1	Organization Training Tactical Plan
		1.3.3.8.1.4		nining Capability
			1.3.3.8.1.4.1	Training Materials and Supporting Artifacts
	1.3.3.8.2	Provide Ne	cessary Traini	ng
		133821	Deliver Trair	ning

			1.3.3.8.2.1.1	Training Courses
		1.3.3.8.2.2	Establish Tra	aining Records
			1.3.3.8.2.2.1	Training Records
			1.3.3.8.2.2.2	Organization Process Asset Library Training Items
		1.3.3.8.2.3	Assess Traini	ing Effectiveness
			1.3.3.8.2.3.1	Training Surveys
			1.3.3.8.2.3.2	Training Assessments
			1.3.3.8.2.3.3	Instructor Evaluations
			1.3.3.8.2.3.4	Training Tests
1.3.3.9	Integrated	d Project Ma	nagement (Wo	rk Product—46)
	1.3.3.9.1	Use the Pro	ject's Defined	
		1.3.3.9.1.1	Establish the	Project's Defined Process
			1.3.3.9.1.1.1	Project Defined Processes
		1.3.3.9.1.2		ational Process Assets for Planning Project Activities
			1.3.3.9.1.2.1	Project Estimates
			1.3.3.9.1.2.2	Project Plans
		1.3.3.9.1.3	Integrate Pla	
			1.3.3.9.1.3.1	Integrated Plans
		1.3.3.9.1.4	_	Project Using the Integrated Plans
			1.3.3.9.1.4.1	Project Defined Process Work Products
			1.3.3.9.1.4.2	Project Measures and Progress Reports
			1.3.3.9.1.4.3	Requirement, Plans, and Commitment Revisions
			1.3.3.9.1.4.4	Integrated Plans
		1.3.3.9.1.5		o the Organizational Process Assets
			1.3.3.9.1.5.1	Organization Process Asset Improvements
			1.3.3.9.1.5.2	Project Process and Product Measures
			1.3.3.9.1.5.3	Project Documentation
	1.3.3.9.2	Coordinate	and Collabora	ate with Relevant Stakeholders
		1.3.3.9.2.1	_	ceholder Involvement
			1.3.3.9.2.1.1	Collaboration Agendas and Schedules
			1.3.3.9.2.1.2	Stakeholder Issues
		1.3.3.9.2.2	Manage Depo	
			1.3.3.9.2.2.1	Stakeholder Defects, Issues, and Action Items
			1.3.3.9.2.2.2	Critical Dependencies
			1.3.3.9.2.2.3	Critical Dependency Commitments
			1.3.3.9.2.2.4	Critical Dependency Status
		1.3.3.9.2.3	Resolve Coor	dination Issues
			1339231	Stakeholder Coordination Issues

		1.3.3.9.2.3.2	Stakeholder Coordination Issue Status		
1.3.3.9.3	Use the Pro	Use the Project's Shared Vision for IPPD			
	1.3.3.9.3.1	Define Projec	t's Shared Vision Context		
		1.3.3.9.3.1.1	Organization Expectations and Constraints		
		1.3.3.9.3.1.2	Project Member Aspirations		
		1.3.3.9.3.1.3	External Interfaces		
		1.3.3.9.3.1.4	Operational Conditions		
		1.3.3.9.3.1.5	Project Shared Vision Context		
	1.3.3.9.3.2	Establish the	Project's Shared Vision		
		1.3.3.9.3.2.1	Team Meeting Minutes		
		1.3.3.9.3.2.2	Shared Vision and Objectives		
		1.3.3.9.3.2.3	Values and Principles		
		1.3.3.9.3.2.4	Communication Strategies		
		1.3.3.9.3.2.5	New Project Member Handbook		
		1.3.3.9.3.2.6	Stakeholder Presentations		
		1.3.3.9.3.2.7	Principles, Shared Vision, Mission Statement, and Objectives		
1.3.3.9.4	_	itegrated Team			
	1.3.3.9.4.1		tegrated Team Structure for the Project		
		1.3.3.9.4.1.1	Product and Product Architecture, Risk, and Complexity Assessments		
		1.3.3.9.4.1.2	Candidate Integrated Team Structures		
		1.3.3.9.4.1.3	Integrated Team Responsibilities, Scope, and Interfaces		
		1.3.3.9.4.1.4	Final Integrated Team Structures		
	1.3.3.9.4.2		eliminary Distribution of Requirements to Integrated Teams		
		1.3.3.9.4.2.1	Preliminary Integrated Team Authority and Responsibilities		
		1.3.3.9.4.2.2	Preliminary Work Product Requirements, Technical Interfaces, and		
			Administrative Interfaces		
	1.3.3.9.4.3		egrated Teams		
		1.3.3.9.4.3.1	Product Integrated Team Lists		
		1.3.3.9.4.3.2	Integrated Team Leaders		
		1.3.3.9.4.3.3	Integrated Team Authority and Responsibilities		
		1.3.3.9.4.3.4	Integrated Team Requirements		
		1.3.3.9.4.3.5	Integrated Team Performance Measures		
		1.3.3.9.4.3.6	Quality Assurance Reports		
		1.3.3.9.4.3.7	Periodic Status Reports		
		1.3.3.9.4.3.8	Integrated Team Structures		
	•	rk Product—1	·		
1.3.3.10.1	Prepare for Risk Management				
	1.3.3.10.1.1	Determine Ri	sk Sources and Categories		

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- 1.3.3.10.1.1.1 Sources of External and Internal Risks
- 1.3.3.10.1.1.2 Risk Categories

1.3.3.10.1.2 Define Risk Parameters

- 1.3.3.10.1.2.1 Risk Evaluation, Categorization, and Prioritization criteria
- 1.3.3.10.1.2.2 Risk Management Requirements

1.3.3.10.1.3 Establish a Risk Management Strategy

1.3.3.10.1.3.1 Risk Management Strategy

1.3.3.10.2 Identify and Analyze Risks

1.3.3.10.2.1 Identify Risks

1.3.3.10.2.1.1 Risks

1.3.3.10.2.2 Evaluate, Categorize, and Prioritize Risks

1.3.3.10.2.2.1 Prioritized Risks

1.3.3.10.3 Mitigate Risks

1.3.3.10.3.1 Develop Risk Mitigation Plans

- 1.3.3.10.3.1.1 Risk Handling Options
- 1.3.3.10.3.1.2 Risk Mitigation Plans
- 1.3.3.10.3.1.3 Risk Contingency Plans
- 1.3.3.10.3.1.4 Risk Management Responsibilities

1.3.3.10.3.2 Implement Risk Mitigation Plans

- 1.3.3.10.3.2.1 Risk Status
- 1.3.3.10.3.2.2 Risk Likelihood, Consequence, and Threshold Assessments
- 1.3.3.10.3.2.3 Risk Handling Options
- 1.3.3.10.3.2.4 Risk Contingency Plans
- 1.3.3.10.3.2.5 Risk Mitigation Plans

1.3.3.11 Integrated Teaming (Work Product—25)

1.3.3.11.1 Establish Team Composition

1.3.3.11.1.1 Identify Team Tasks

- 1.3.3.11.1.1.1 Internal Work Tasks
- 1.3.3.11.1.1.2 Work Task Expectations

1.3.3.11.1.2 Identify Needed Knowledge and Skills

- 1.3.3.11.1.2.1 Work Task Disciplines or Functions
- 1.3.3.11.1.2.2 Work Task Knowledge, Skills, and Expertise
- 1.3.3.11.1.2.3 Work Task Team Skill and Knowledge Profiles

1.3.3.11.1.3 Assign Appropriate Team Members

- 1.3.3.11.1.3.1 Selection Criteria
- 1.3.3.11.1.3.2 Skills Matrix and Knowledge Profiles
- 1.3.3.11.1.3.3 Team Members
- 1.3.3.11.1.3.4 Level of Effort and Resources

1.3.3.11.2 Govern Team Operation

1.3.3.11.2.1 Establish a Shared Vision

- 1.3.3.11.2.1.1 Boundary Conditions and Interfaces
- 1.3.3.11.2.1.2 Shared Vision
- 1.3.3.11.2.1.3 Shared Vision Presentations

1.3.3.11.2.2 Establish a Team Charter

- 1.3.3.11.2.2.1 Team Charter
- 1.3.3.11.2.2.2 Expectation Setting and Team Performance Measurement Procedures
- 1.3.3.11.2.2.3 Critical Success Factors
- 1.3.3.11.2.2.4 Team Strategies

1.3.3.11.2.3 Define Roles and Responsibilities

- 1.3.3.11.2.3.1 Roles and Responsibilities
- 1.3.3.11.2.3.2 Assignments
- 1.3.3.11.2.3.3 Responsibilities

1.3.3.11.2.4 Establish Operating Procedures

- 1.3.3.11.2.4.1 Operating Procedures and Ground Rules
- 1.3.3.11.2.4.2 Work Expectation and Performance Measurement Procedures

1.3.3.11.2.5 Collaborate Among Interfacing Teams

- 1.3.3.11.2.5.1 Work Process and Product Deployment Charts
- 1.3.3.11.2.5.2 Integrated Master Plan and Schedule Inputs
- 1.3.3.11.2.5.3 Team Work Plans
- 1.3.3.11.2.5.4 Team Commitments

1.3.3.12 Analysis and Resolution (Work Product—7)

1.3.3.12.1 Evaluate Alternatives

1.3.3.12.1.1 Establish Guidelines for Decision Analysis

1.3.3.12.1.1.1 Formal Evaluation Process Guidelines

1.3.3.12.1.2 Establish Evaluation Criteria

- 1.3.3.12.1.2.1 Evaluation Criteria
- 1.3.3.12.1.2.2 Criteria Rankings

1.3.3.12.1.3 Identify Alternative Solutions

1.3.3.12.1.3.1 Alternatives

1.3.3.12.1.4 Select Evaluation Methods

1.3.3.12.1.4.1 Evaluation Methods

1.3.3.12.1.5 Evaluate Alternatives

1.3.3.12.1.5.1 Evaluation Results

1.3.3.12.1.6 Select Solutions

1.3.3.12.1.6.1 Solution Recommendations

1.3.3.13 Organizational Environment for Integration (Work Product—15)

1.3.3.13.1 Provide IPPD Infrastructure 1.3.3.13.1.1 Establish the Organization's Shared Vision 1.3.3.13.1.1.1 Organization Shared Vision 1.3.3.13.1.1.2 Organization Shared Vision Evaluations 1.3.3.13.1.1.3 Organization Shared Vision Establishment Guidelines 1.3.3.13.1.2 Establish an Integrated Work Environment 1.3.3.13.1.2.1 Integrated Work Environment Requirements 1.3.3.13.1.2.2 Integrated Work Environment Design 1.3.3.13.1.2.3 Integrated Work Environment 1.3.3.13.1.3 Identify IPPD-Unique Skill Requirements 1.3.3.13.1.3.1 IPPD Strategic Training Needs 1.3.3.13.1.3.2 IPPD Tactical Training Needs **1.3.3.13.2** Manage People for Integration 1.3.3.13.2.1 Establish Leadership Mechanisms 1.3.3.13.2.1.1 Team and Individual Empowerment Guidelines 1.3.3.13.2.1.2 Leadership and Decision Making Establishment Guidelines 1.3.3.13.2.1.3 Issue Resolution Guidelines 1.3.3.13.2.2 Establish Incentives for Integration 1.3.3.13.2.2.1 Performance Appraisal Policies and Procedures 1.3.3.13.2.2.2 Team and Individual Recognitions and Rewards 1.3.3.13.2.3 Establish Mechanisms to Balance Team and Home Organization Responsibilities 1.3.3.13.2.3.1 Team and Home Balancing Guidelines 1.3.3.13.2.3.2 Performance Review Process

1.4 Maturity Level 4—Quantitatively Managed (Policy—2, Procedure—1 3, Work Product—28)

- 1.4.1 **Policy (2)**
 - 1.4.1.1 Organizational Process Performance
 - 1.4.1.2 Quantitative Project Management
- **1.4.2** Procedure (13)
 - **1.4.2.1** Organizational Process Performance (Procedure—5)
 - **Establish Performance Baselines and Models** 1.4.2.1.1
 - 1.4.2.1.1.1 Select Processes
 - Receive Organization Standard Process and Organization Measurement 1.4.2.1.1.1.1 Repository 1.4.2.1.1.1.2 Analyze Organization Standard Process and Organization Measurement
 - **Repository**
 - 1.4.2.1.1.1.3 Identify Process Elements in Organization Standard Process and Process and Product Measures in Organization Measurement Repository
 - 1.4.2.1.1.1.4 Select and Document List of Process Elements to Measure

	1.4.2.1.1.5	Evaluate List of Process Elements
	1.4.2.1.1.1.6	Review and Approve List of Process Elements
	1.4.2.1.1.1.7	Baseline List of Process Elements
1.4.2.1.1.2	Establish Pro	ocess Performance Measures
	1.4.2.1.1.2.1	Analyze and Identify Relevant Business Objective
	1.4.2.1.1.2.2	Analyze and Identify Relevant Process and Product Measures
	1.4.2.1.1.2.3	Select Process and Product Measures Relevant to Business Objectives
	1.4.2.1.1.2.4	Designate Relevant Process and Product Measures as Common Measures
	1.4.2.1.1.2.5	Evaluate Common Measures
	1.4.2.1.1.2.6	Review and Approve Common Measures
	1.4.2.1.1.2.7	Baseline Common Measures
1.4.2.1.1.3	Establish Qu	ality and Process Performance Objectives
	1.4.2.1.1.3.1	Analyze and Identify Business Objectives Relevant to Quality
	1.4.2.1.1.3.2	Analyze and Identify Process and Product Measures Relevant to Quality
	1.4.2.1.1.3.3	Select Process and Product Measures Relevant to Quality
	1.4.2.1.1.3.4	Prioritize and Select Process and Product Measures Relevant to Quality
	1.4.2.1.1.3.5	Evaluate Process and Product Quality Measures
	1.4.2.1.1.3.6	Review and Approve Process and Product Quality Measures
1.4.2.1.1.4		ocess Performance Baselines
	1.4.2.1.1.4.1	Collect Measures from Projects
	1.4.2.1.1.4.2	Establish Organization Process Performance Baselines
	1.4.2.1.1.4.3	Evaluate Organization Process Performance Baselines
	1.4.2.1.1.4.4	Review and Approve Organization Process Performance Baselines
	1.4.2.1.1.4.5	Baseline Organization Process Performance Baselines
	1.4.2.1.1.4.6	Evaluate Organization Process Performance Baselines Against Quality
		Business Objectives
	1.4.2.1.1.4.7	Align Organization Process Performance Baselines With Quality Business
		Objectives
1.4.2.1.1.5		ocess Performance Models
	1.4.2.1.1.5.1	Receive Organization Standard Process and Organization Measurement
	1 4 2 1 1 7 2	Repository
	1.4.2.1.1.5.2	Analyze and Identify Process Elements and Process and Product Measures
	1.4.2.1.1.5.3	Develop Process Performance Models from Process Elements and Process and
	1 4 2 1 1 7 4	Product Measures
	1.4.2.1.1.5.4	Calibrate and Document Process Performance Models
	1.4.2.1.1.5.5	Evaluate Process Performance Models
	1.4.2.1.1.5.6	Review and Approve Process Performance Models
	1.4.2.1.1.5.7	Baseline Process Performance Models

1.4.2.2 Quantitative Project Management (Procedure—8)

1.4.2.2.1 Quantitatively Manage the Project

-	very Manage in	· ·
1.4.2.2.1.1	Establish the	Project's Objectives
	1.4.2.2.1.1.1	Review Organization Objectives for Process and Product Quality
	1.4.2.2.1.1.2	Identify Customer Objectives for Process and Product Quality
	1.4.2.2.1.1.3	Identify Methods for Measuring Process and Product Quality
	1.4.2.2.1.1.4	Identify Process and Product Quality Measures for Life Cycle Phases, Process
		Elements, and Products
	1.4.2.2.1.1.5	Define and Document Project Objectives for Process and Product Quality
	1.4.2.2.1.1.6	Evaluate Project Objectives for Process and Product Quality
	1.4.2.2.1.1.7	Review and Approve Project Objectives for Process and Product Quality
	1.4.2.2.1.1.8	Baseline Project Objectives for Process and Product Quality
	1.4.2.2.1.1.9	Define and Negotiate Process and Product Quality Objectives for Suppliers
1.4.2.2.1.2	Compose the	Defined Process
	1.4.2.2.1.2.1	Establish Criteria for Identifying Subprocesses for Statistical Management
	1.4.2.2.1.2.2	Analyze and Identify Subprocesses for Statistical Management
	1.4.2.2.1.2.3	Determine Suitability of Subprocesses for Statistical Management
	1.4.2.2.1.2.4	Analyze Interrelationships of Subprocesses for Statistical Management
	1.4.2.2.1.2.5	Identify Risks Associated with Statistically Managing Subprocesses
	1.4.2.2.1.2.6	Document Candidate Subprocesses for Statistical Management
	1.4.2.2.1.2.7	Evaluate Candidate Subprocesses for Statistical Management
	1.4.2.2.1.2.8	Review and Approve Candidate Subprocesses for Statistical Management
	1.4.2.2.1.2.9	Baseline Candidate Subprocesses for Statistical Management
1.4.2.2.1.3	Select the Su	bprocesses That Will Be Statistically Managed
	1.4.2.2.1.3.1	Identify Quality Objectives for Statistical Management of Subprocesses
	1.4.2.2.1.3.2	Identify Criteria Final Selection of Subprocesses for Statistical Management
	1.4.2.2.1.3.3	Select Final Subprocesses for Statistical Management
	1.4.2.2.1.3.4	Document Subprocesses for Statistical Management
	1.4.2.2.1.3.5	Evaluate Subprocesses for Statistical Management
	1.4.2.2.1.3.6	Review and Approve Subprocesses for Statistical Management
	1.4.2.2.1.3.7	Baseline Subprocesses for Statistical Management
1.4.2.2.1.4	Manage Proj	ect Performance
	1.4.2.2.1.4.1	Periodically Measure Statistical Performance of Project Subprocesses
	1.4.2.2.1.4.2	Periodically Analyze Planned Versus Actual Project Subprocess Performance
	1.4.2.2.1.4.3	Periodically Measure and Analyze Planned Versus Actual Supplier Subprocess
		Performance
	1.4.2.2.1.4.4	Create and Use Subprocess Performance Models for Analyzing Project and
		Supplier Subprocess Performance

		1.4.2.2.1.4.5	Identify and Manage Risks Associated with Project and Supplier Subprocess Performance
		1.4.2.2.1.4.6	Evaluate Results of Project and Supplier Subprocess Performance Management
		1.4.2.2.1.4.7	Review and Approve Results of Project and Supplier Subprocess Performance
		1.4.2.2.1.4.7	11 3 11 1
		1.4.2.2.1.4.8	Management Baseline Results of Project and Supplier Subprocess Performance Management
1.4.2.2.2	Statistically		rocess Performance
1,4,2,2,2	•	_	res and Analytic Techniques
	1.4.2.2.2.1	1.4.2.2.2.1.1	Analyze Common Measures from Organization Process Asset Library for
		1.7.2.2.2.1.1	Statistical Management
		1.4.2.2.2.1.2	Analyze Additional Measures to Support Statistical Management
		1.4.2.2.2.1.3	Identify Measures for Statistical Management
		1.4.2.2.2.1.4	Specify Operational Definition of Measures for Statistical Management
		1.4.2.2.2.1.5	Analyze Relationship of Business Objectives to Measures for Statistical
		1.1.2.2.2.1.3	Management
		1.4.2.2.2.1.6	Instrument Organization Standard Process, Process Elements, and Project
			Defined Process for Statistical Management
		1.4.2.2.2.1.7	Identify Statistical Analysis Techniques to Support Statistical Management
		1.4.2.2.2.1.8	Evaluate Measures and Analytic Techniques for Statistical Management
		1.4.2.2.2.1.9	Review and Approve Measures and Analytic Techniques for Statistical
			Management
		1.4.2.2.2.1.10	Baseline Measures and Analytic Techniques for Statistical Management
	1.4.2.2.2.2		cal Methods to Understand Variation
		1.4.2.2.2.2.1	Establish Trial Natural Bounds for Subprocesses With Suitable Historical
			Performance Data
		1.4.2.2.2.2.2	Collect Data on Subprocesses As They Are Executed
		1.4.2.2.2.2.3	Calculate Natural Bounds of Subprocess Performance for Measured Attributes
		1.4.2.2.2.2.4	Evaluate Subprocess Performance Measures
		1.4.2.2.2.5	Review and Approve Subprocess Performance Measures
		1.4.2.2.2.2.6	Baseline Subprocess Performance Measures
		1.4.2.2.2.2.7	Identify Special Causes of Variation
		1.4.2.2.2.2.8	Determine Corrective Actions To Be Taken for Special Causes of Variation
	1.4.2.2.2.3		ormance of the Selected Subprocesses
		1.4.2.2.2.3.1	Review and Analyze Subprocess Performance Objectives and Measures
		1.4.2.2.3.2	Compare Planned Versus Actual Subprocess Performance Objectives and
			Measures
		1.4.2.2.2.3.3	Monitor Planned Versus Actual Subprocess Performance Objectives and
			Measures

			1.4.2.2.2.3.4	Identify and Document Analysis of Subprocess Capability Deficiencies
			1.4.2.2.2.3.5	Evaluate Analysis of Subprocess Capability Deficiencies
			1.4.2.2.2.3.6	Review and Approve Analysis of Subprocess Capability Deficiencies
			1.4.2.2.2.3.7	Baseline Analysis of Subprocess Capability Deficiencies
		1.4.2.2.2.4	Record Statis	stical Management Data
			1.4.2.2.2.4.1	Receive Measures, Analytical Techniques, Subprocess Performance Measures,
				and Analysis of Subprocess Capability Deficiencies
			1.4.2.2.2.4.2	Analyze Measures, Analytical Techniques, Subprocess Performance Measures,
				and Analysis of Subprocess Capability Deficiencies
			1.4.2.2.2.4.3	Identify Measures, Analytical Techniques, Subprocess Performance Measures,
				and Analysis of Subprocess Capability Deficiencies for Archive Purposes
			1.4.2.2.2.4.4	Record Selected Measures, Analytical Techniques, Subprocess Performance
				Measures, and Analysis of Subprocess Capability Deficiencies
			1.4.2.2.2.4.5	Evaluate Records of Measures, Analytical Techniques, Subprocess
				Performance Measures, and Analysis of Subprocess Capability Deficiencies
			1.4.2.2.2.4.6	Review and Approve Records of Measures, Analytical Techniques, Subprocess
				Performance Measures, and Analysis of Subprocess Capability Deficiencies
			1.4.2.2.2.4.7	Baseline Records of Measures, Analytical Techniques, Subprocess Performance
				Measures, and Analysis of Subprocess Capability Deficiencies
Work P	roduct (28)	1		
1.4.3.1	Organizat	tional Process	s Performance	
	1.4.3.1.1	Establish P	erformance Ba	selines and Models (Work Product—5)
		1.4.3.1.1.1	Select Proces	ses
			1.4.3.1.1.1.1	Processes or Process Elements
		1.4.3.1.1.2	Establish Pro	ocess Performance Measures
			1.4.3.1.1.2.1	Process Performance Measurements
		1.4.3.1.1.3	Establish Qua	ality and Process Performance Objectives
			1.4.3.1.1.3.1	Organization Quality and Process Performance Objectives
		1.4.3.1.1.4	Establish Pro	ocess Performance Baselines
			1.4.3.1.1.4.1	Organization Process Performance Baseline Data
		1.4.3.1.1.5	Establish Pro	ocess Performance Models
			1.4.3.1.1.5.1	Process Performance Models
1.4.3.2	Quantitat	ive Project M	Ianagement (V	Vork Product—23)
	1.4.3.2.1	Quantitativ	ely Manage th	e Project
		1.4.3.2.1.1	Establish the	Project's Objectives
			1.4.3.2.1.1.1	Project Quality and Process Performance Objectives
		1.4.3.2.1.2	Compose the	Defined Process
			1.4.3.2.1.2.1	Subprocess Identification Criteria

1.4.3

1.4.3.2.1.2.3 Final Subprocesses 1.4.3.2.1.2.4 Subprocess Risks					1.4.3.2.1.2.2	Candidate Subprocesses
1.4.3.2.1.3 Scalet the Subprocesses That Will Be Statistically Managed 1.4.3.2.1.3. Statistical Management Quality and Process Performance Objectives 1.4.3.2.1.3. Subprocess Selection Criteria 1.4.3.2.1.3. Subprocess Selection Criteria 1.4.3.2.1.3. Subprocess and Product Attributes 1.4.3.2.1.3. Subprocess and Product Attributes 1.4.3.2.1.3. Subprocess and Product Attributes 1.4.3.2.1.3. Project Quality and Process Performance Estimates 1.4.3.2.1.4. Project Quality and Process Performance Risks 1.4.3.2.1.4. Project Quality and Process Performance Deficiency Actions 1.4.3.2.1.4. Project Quality and Process Performance Deficiency Actions 1.4.3.2.1.1. Subprocess Measures Performance Deficiency Actions 1.4.3.2.2.1. Subprocess Measures and Analytic Techniques 1.4.3.2.2.1. Subprocess Measure Definitions 1.4.3.2.2.1. Subprocess Measure Definitions 1.4.3.2.2.1. Subprocess Measure Tarceability 1.4.3.2.2.1. Subprocess Measure Tarceability 1.4.3.2.2.1. Measurement Data 1.4.3.2.2.2.1. Subprocess Performance Attribute Natural Bounds Planned Versus Actuals 1.4.3.2.2.3. Subprocess Performance Attribute Natural Bounds Planned Versus Actuals 1.4.3.2.2.3. Subprocess Performance Attribute Natural Bounds Planned Versus Actuals 1.4.3.2.2.3. Subprocess Capabilities 1.4.3.2.2.3. Subprocess Capabilities 1.4.3.2.2.3. Subprocess Capabilities 1.4.3.2.2.4. Organizational Innovation 1.4.3.2.2.4. Organizational Innovation 1.4.3.2.2.4. Organizational Innovation 1.4.3.2.2.4. Organizational Innovation 1.4.3.2.4. Organizational Innovation 1.4.3.2.					1.4.3.2.1.2.3	Final Subprocesses
1.4.3.2.1.3.1 Statistical Management Quality and Process Performance Objectives 1.4.3.2.1.3.2 Subprocess Selection Criteria 1.4.3.2.1.3.3 Subprocess Performance Estimates 1.4.3.2.1.4.1 Project Quality and Process Performance Estimates 1.4.3.2.1.4.1 Project Quality and Process Performance Deficiency Actions 1.4.3.2.1.4.3 Project Quality and Process Performance Deficiency Actions 1.4.3.2.2.1 Subprocess Measures and Analytic Techniques 1.4.3.2.2.1.1 Subprocess Measures and Analytic Techniques 1.4.3.2.2.1.1 Subprocess Measure Definitions 1.4.3.2.2.1.3 Subprocess Measure Traceability 1.4.3.2.2.1.4 Instrumented Organizational Support Environment 1.4.3.2.2.2.1 Subprocess Measure Techniques 1.4.3.2.2.2.1 Subprocess Performance Attribute Natural Bounds 1.4.3.2.2.2.1 Subprocess Performance Attribute Natural Bound Analysis 1.4.3.2.2.2.1 Subprocess Performance Attribute Natural Bounds Planned Versus Actuals 1.4.3.2.2.3 Subprocess Performance Attribute Natural Bounds Planned Versus Actuals 1.4.3.2.2.3 Subprocess Performance Attribute Natural Bounds Planned Versus Actuals 1.4.3.2.2.3 Subprocess Performance Attribute Natural Bounds Planned Versus Actuals 1.4.3.2.2.3 Subprocess Performance Attribute Natural Bounds Planned Versus Actuals 1.4.3.2.2.3 Subprocess Performance Attribute Natural Bounds Planned Versus Actuals 1.4.3.2.2.3 Subprocess Performance Attribute Natural Bounds Planned Versus Actuals 1.4.3.2.2.3 Subprocess Performance Attribute Natural Bounds Planned Versus Actuals 1.4.3.2.2.3 Subprocess Performance Attribute Natural Bounds Planned Versus Actuals 1.4.3.2.2.3 Subprocess Performance Planned Versus Actuals 1.4.3.2.2.3 Subprocess Performance Planned Versus Actuals 1.4.3.2.2.3 S					1.4.3.2.1.2.4	Subprocess Risks
1.4.3.2.1.3.2 Subprocess Selection Criteria 1.4.3.2.1.3.3 Subprocesses 1.4.3.2.1.3.3 Subprocesses 1.4.3.2.1.3.4 Subprocess and Product Attributes 1.4.3.2.1.4 Manage Project Performance 1.4.3.2.1.4.1 Project Quality and Process Performance Estimates 1.4.3.2.1.4.2 Project Quality and Process Performance Risks 1.4.3.2.1.4.3 Project Quality and Process Performance Deficiency Actions 1.4.3.2.2.1 Select Measures and Analytic Techniques 1.4.3.2.2.1 Subprocess Measures and Analytic Techniques 1.4.3.2.2.1.1 Subprocess Measure Befinitions 1.4.3.2.2.1.2 Subprocess Measure Traceability 1.4.3.2.2.1.3 Subprocess Measure Definitions 1.4.3.2.2.1.4 Instrumented Organizational Support Environment 1.4.3.2.2.2.1 Measurement Data 1.4.3.2.2.2.2 Subprocess Performance Attribute Natural Bounds 1.4.3.2.2.2.2 Subprocess Performance Attribute Natural Bounds 1.4.3.2.2.2.3 Subprocess Performance Attribute Natural Bounds 1.4.3.2.2.3 Subprocess Performance Attribute Natural Bounds 1.4.3.2.2.3 Subprocess Performance Attribute Natural Bounds 1.4.3.2.2.3 Subprocess Capabilities 1.4.3.2.2.4 Organizational Innovation and Deployment 1.5.1.1 Organizational Innovation and Deployment 1.5.1.1 Organizational Innovation and Deployment 1.5.2.1 Select Improvement Proposals 1.5.2.1.1.1.1 Collect and Analyze Improvement Proposals 1.5.2.1.1.1.1 Collect and Analyze Improvement Proposals 1.5.2.1.1.1.1 Collect Process and Technology Improvement Proposals 1.5.2.1.1.1				1.4.3.2.1.3	Select the Sul	oprocesses That Will Be Statistically Managed
1.4.3.2.1.33 Subprocesses 1.4.3.2.1.34 Subprocess and Product Attributes 1.4.3.2.1.45 Intervention 1.4.3.2.1.40 Project Quality and Process Performance Estimates 1.4.3.2.1.41 Project Quality and Process Performance Estimates 1.4.3.2.1.42 Project Quality and Process Performance Estimates 1.4.3.2.1.43 Project Quality and Process Performance Deficiency Actions 1.4.3.2.1.45 Statistically Manage Subprocess Performance Deficiency Actions 1.4.3.2.2.15 Subprocess Performance Beficiency Actions 1.4.3.2.2.11 Subprocess Measure Definitions 1.4.3.2.2.12 Subprocess Measure Definitions 1.4.3.2.2.13 Subprocess Measure Definitions 1.4.3.2.2.14 Instrumented Organizational Support Environment 1.4.3.2.2.15 Subprocess Performance Attribute Natural Bounds 1.4.3.2.2.2.1 Measurement Data 1.4.3.2.2.2.3 Subprocess Performance Attribute Natural Bounds 1.4.3.2.2.3 Subprocess Performance Attribute Natural Bounds 1.4.3.2.2.3 Subprocess Performance Attribute Natural Bounds Planned Versus Actuals 1.4.3.2.2.3 Subprocess Capabilities 1.4.3.2.2.3 Subprocess Capabilities 1.4.3.2.2.3 Subprocess Capabilities 1.4.3.2.2.4 Organization Measurement Data 1.4.3.2.2.4 Organization Measurement Repository Statistical Data Items 1.5.1 Policy (2) 1.5.1 Organizational Innovation and Deployment 1.5.2.1 Organizational Innovation and Deployment (Procedure—8) 1.5.2.1.1 Select Improvement Proposals 1.5.2.1.1.1 Collect and Analyze Improvement Proposals 1.5.2.1.1.1.1 Collect and Analyze Improvement Proposals 1.5.2.1.1.1.1 Collect and Analyze Improvement Proposals 1.5.2.1.1.1.1 Collect Process and Technology Improvement Proposals					1.4.3.2.1.3.1	Statistical Management Quality and Process Performance Objectives
1.4.3.2.1.3					1.4.3.2.1.3.2	Subprocess Selection Criteria
1.4.3.2.1.4					1.4.3.2.1.3.3	Subprocesses
1.4.3.2.1.4.1 Project Quality and Process Performance Estimates 1.4.3.2.1.4.2 1.4.3.2.1.4.2 Project Quality and Process Performance Risks 1.4.3.2.2.1 Project Quality and Process Performance Deficiency Actions					1.4.3.2.1.3.4	Subprocess and Product Attributes
1.4.3.2.1.4.2 Project Quality and Process Performance Risks 1.4.3.2.1.4.3 Project Quality and Process Performance Deficiency Actions				1.4.3.2.1.4	Manage Proje	ect Performance
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				1.5.2.2.2.5.2	Record Rationale for Decisions, Record Action Proposals, Selected Action		
					Proposals, and Plans for Implementing Action Proposals		
				1.5.2.2.2.5.3	Record Results of Implementing Action Proposals and Effect of Changes		
				1.5.2.2.2.5.4	Record Costs of Implementing Action Proposals and Current Defect Levels		
				1.5.2.2.2.5.5	Evaluate Records of Implementing Action Proposals		
				1.5.2.2.2.5.6	Review and Approve Records of Implementing Action Proposals		
				1.5.2.2.2.5.7	Baseline Records of Implementing Action Proposals		
1.5.3	Work P	roduct (21))				
	1.5.3.1 Organizational Innovation and Deployment (Work Product—12)						
		1.5.3.1.1	Select Impi	provements			
			1.5.3.1.1.1	Collect and A	Analyze Improvement Proposals		
				1.5.3.1.1.1.1	Process and Technology Improvement Proposal Analysis		
			1.5.3.1.1.2	Identify and	Analyze Innovations		
				1.5.3.1.1.2.1	Candidate Improvements		
				1.5.3.1.1.2.2	Improvement Analysis		
			1.5.3.1.1.3		for Pilot Improvements		
				1.5.3.1.1.3.1	Plans for Pilot Improvements		
			1.5.3.1.1.4	Pilot Improv	<u>*</u>		
				1.5.3.1.1.4.1	Pilot Evaluation Reports		
				1.5.3.1.1.4.2	Pilot Lessons Learned		
			1.5.3.1.1.5		vements for Deployment		
				1.5.3.1.1.5.1	Selected Process and Technology Improvement Proposals		
		1.5.3.1.2 Deploy Im		orovements			
				Plan the Dep	lovment		
				1.5.3.1.2.1.1	Process and Technology Improvement Proposal Deployment Plans		
1.5.3.1.2.2 Manage the Deployment							
				1.5.3.1.2.2.1	- ·		
				1.5.3.1.2.2.2	· · · · · · · · · · · · · · · · · · ·		
				1.5.3.1.2.2.3	Process and Technology Improvement Measures, Objectives, Priorities, and		
					Deployment Plans		
			1.5.3.1.2.3	Measure Imp	provement Effects		
				_	Process and Technology Improvement Effects (Quantitative)		
	1.5.3.2	Causal A	nalysis and R		rk Product—9)		
	1.5.3.2.1 Determine Causes of Defects						
			1.5.3.2.1.1				
				1.5.3.2.1.1.1	Defect and Problem Data		
			1.5.3.2.1.2 Analyze Causes				
			-	1.5.3.2.1.2.1	Action Proposals		
					±		

1.5.3.2.1.3 Develop Action Proposals 1.5.3.2.1.3.1 **Action Proposals Address Causes of Defects** 1.5.3.2.2 **Select Action Proposals for Eliminating Defects** 1.5.3.2.2.1 1.5.3.2.2.1.1 Selected Action Proposals 1.5.3.2.2.2 **Create Plans for Implementing Action Proposals Action Proposal Implementation Plans** 1.5.3.2.2.2.1 1.5.3.2.2.3 **Implement the Action Proposals** 1.5.3.2.2.3.1 **Selected Action Proposals** 1.5.3.2.2.3.2 Improvement Proposals 1.5.3.2.2.4 **Evaluate the Effect of Changes** 1.5.3.2.2.4.1 Performance Measures 1.5.3.2.2.5 **Record Data** 1.5.3.2.2.5.1 Causal Analysis Records