

4.0 Project Integration Management	4.1 Develop Project Charter	4.2 Develop Project Management Plan	4.3 Direct and Manage Project Execution	4.4 Monitor and Control Project Work	4.5 Perform Integrated Change Control	4.6 Close Project or Phase
	Inputs 1- Project statement of Work 2- Business Case 3- Contact 4- Enterprise Environmental Factors 5- Organizational Process Assets Tools 1- Expert Judgment Outputs 1- Project Charter	Inputs 1- Project Charter 2- Output From Planning Process 3- Enterprise Environmental Factors 4- Organizational Process Assets Tools 1- Expert Judgment Outputs 1- Project Management Plan	Inputs 1- Project Management Plan 2- Approved Change Request 3- Enterprise Environmental Factors 4- Organizational Process Assets Tools 1- Expert Judgment 2- Project Management Information System Outputs 1- Deliverables 2- Work Performance Information 3- Change Requests 4- Project Management Plan Updates 5- Project Documents Updates	Inputs 1- Project Management Plan 2- Performance Reports 3- Enterprise Environmental Factors 4- Organizational Process Assets Tools 1- Expert Judgment Outputs 1- Deliverables 2- Project Management Plan Updates 3- Project Documents Updates	Inputs 1- Project Management Plan 2- Work Performance Information 3- Change Requests 4- Enterprise Environmental Factors 5- Organizational Process Assets Tools 1- Expert Judgment 2- Change Control Meeting Outputs 1- Change Request Status Updates 2- Project Management Plan Updates 3- Project Documents Updates	Inputs 1- Project Management Plan 2- Approved Deliverables 3- Organizational Process Assets Tools 1- Expert Judgment 2- Project Management Information System Outputs 1- Final Product, Services or Result Transition 2- Organizational Process Assets
5.0 Project Scope Management	5.1 Collect Requirements	5.2 Define Scope	5.3 Create WBS	5.4 Verify Scope	5.5 Control Scope	
	Inputs 1- Project Charter 2- Stake Holder Register Tools 1- Interview 2- Focus Group 3- Facilitated Workshops 4- Group Creativity Techniques 5- Questionnaires and Survey 6- Observation 7- Prototypes Outputs 1- Requirements Documentation 2- Requirement Management Plan 3- Requirement Traceability Matrix	Inputs 1- Project Charter 2- Requirements Documentation 3- Organizational Process Assets Tools 1- Expert Judgment 2- Product Analysis 3- Alternatives Identification 4- Facilitated Workshops Outputs 1- Product Scope Statement 2- Product document Updates	Inputs 1- Project Scope Statement 2- Requirements Documentation 3- Organizational Process Assets Tools 1- Decomposition Outputs 1- Work Breakdown Structure 2- WBS Dictionary 3- Scope Baseline 4- Project Document Updates	Inputs 1- Project Management Plan 2- Requirements Documentation 3- Requirements Traceability Matrix Validates Deliverables Tools 1- Inspection Outputs 1- Accepted Deliverables 2- Change Request 3- Project Document Updates	Inputs 1- Project Management Plan 2- Requirements Documentation 3- Requirements Traceability Matrix Validates Deliverables 4- Organizational Process Assets Tools 1- Variance Analysis Outputs 1- Work Performance Measurements 2- Organizational Process Assets Updates 3- Change Request 4- Project Management Plan Updates	
6.0 Project Time Management	6.1 Define Activities	6.2 Sequence Activities	6.3 Estimate Activity Resources	6.4 Estimate Activity Durations	6.4 Estimate Activity Durations	
	Inputs 1- Scope Baseline 2- Enterprise Environmental Factors 3- Organizational Process Assets Tools 1- Decomposition 2- Rolling Wave 3- Templates 4- Expert Judgment Outputs 1- Activity List 2- Activity attributes 3- Milestone List	Inputs 1- Activity List 2- Activity Attributes 3- Milestone List 4- Project Scope Statement 5- Organizational Process Assets Tools 1- Precedence Diagramming Method 2- Dependency Determination 3- Applying Leads and Lags 4- Schedule Network Template Outputs 1- Project Schedule Network Diagrams 2- Project documents updates	Inputs 1- Activity List 2- Activity Attributes 3- Resources Calendars 4- Enterprise Environmental Factors 5- Organizational Process Assets Tools 1- Expert Judgment 2- Alternative Analysis 3- Published Estimated Data 4- Bottom – UP Estimating 5- Project Management Software Outputs 1- Activity Resource requirements 2- Resources Breakdown Structure 3- Project Document Updates	Inputs 1- Activity List 2- Activity Attributes 3- Activity Resource Requirements 4- Resources Calendars 5- Project Scope Statement 6- Enterprise Environmental Factors 7- Organizational Process Assets Tools 1- Expert Judgment 2- Analog Estimating 3- Parametric Estimating 4- Three Point Estimates 5- Reserve Analysis Outputs 1- Activity Duration Estimate 2- Project Document Updates	Inputs 1- Activity List 2- Activity Attributes 3- Project Schedule Network Diagrams 4- Activity Resource Requirements 5- Resources Calendars 6- Activity Duration Estimate 7- Project Scope Statement 8- Enterprise Environmental Factors 9- Organizational Process Assets Outputs 1- Project Schedule 2- Schedule Baseline 3- Schedule Date 4- Project Document Updates	Tools 1- Schedule Network Analysis 2- Critical Path Method 3- Resources Leveling 4- What-if Scenario Analysis 5- Applying Leads and Lags 6- Schedule Compression 7- Scheduling Tool
7.0 Project Cost Management	7.1 Estimate Costs	7.2 Determine Budget	7.3 Control Cost			
	Inputs 1- Scope Baseline 2- Project Schedule 3- Human Resource Management Plan 4- Risk Register 5- Enterprise Environmental Factors 6- Organizational Process Assets Outputs 1- Activity Cost Estimates 2- Basis of Estimates 3- Project Document Updates	Inputs 1- Activity Cost Estimates 2- Basis of Estimates 3- Scope Baseline 4- Project Schedule 5- Resources Calendar 7- Contracts 8- Organizational Process Assets Outputs 1- Cost Performance Baseline 2- Project Funding Requirements 3- Project Document Updates	Inputs 1- Project Management Plan 2- Project Funding Requirements 3- Work Performance Information 4- Organizational Process Assets Outputs 1- Work Performance Measurements 2- Budget Forecasts 3- Organizational Process Assets Updates 4- Change Requests 5- Project Management Plan Updates 6- Project Document Updates			
8.0 Project Quality Management	8.1 Quality	8.3 Perform Quality Assurance	8.3 Perform Quality Control			
	Inputs 1- Scope Baseline 2- Stake Holder Register 3- Cost Performance Baseline 4- Schedule Baseline 5- Risk Register 6- Enterprise Environmental Factors 7- Organizational Process Assets Outputs 1- Quality Management Plan 2- Quality Metrics 3- Quality Checklist 4- Process Improvement Plan 5- Project Document Updates	Inputs 1- Project Management Plan 2- Quality Metrics 3- Work Performance Measurements 4- Quality Control Measurements Outputs 1- Organizational Process Assets Update 2- Change Requests 3- Project Management Plan Updates 4- Project Document Updates	Inputs 1- Project Management Plan 2- Quality Metrics 3- Quality Checklists 4- Work Performance Measurements 5- Approved Change Request 6- Deliverable 7- Organizational Process Assets Outputs 1- Quality Control Measurements 2- Validated Changes 3- Validated Deliverables 4- Organizational Process Assets 5- Project Management Plan Updates 6- Project Document Updates			Tools 1- Cause and Effect Diagram 2- Control Charts 3- Flowcharting 4- Histogram 5- Pareto Chart 6- Run Chart 7- Scatter Diagram 8- Statistical Sampling 9- Inspection 10- Approved Change Request Review
9.0 Project Human Resource Management	9.1 Develop Human Resource Management Plan	9.2 Acquire Project Team	9.3 Develop Project Team	9.4 Manage Project Team		
	Inputs 1- Activity Resource Requirements 2- Enterprise Environmental Factors 3- Organizational Process Assets Tools 1- Organizational Charts an Position Description 2- Networking 3- Organizational Theory Outputs 1- Human Resource Management Plan	Inputs 1- Project Management Plan 2- Enterprise Environmental Factors 3- Organizational Process Assets Tools 1- Pre-Assignment 2- Negotiation 3- Acquisition 4- Virtual Teams Outputs 1- Project Staff Assignment 2- Resource Calendar 3- Project Management Plan Updates	Inputs 1- Project Staff Assignment 2- Project Management Plan 3- Resources Calendar Tools 1- Interpersonal Skills 2- Training 3- Team Building Activities 3- Ground Rules 4- Go-Location 5- Recognition an Rewards Outputs 1- Enterprise Environmental Factors Update 2- Team Performance Assessments	Inputs 1- Project Staff Assignment 2- Project Management Plan 3- Team Performance Assessments 4- Performance Reports 5- Organizational Process Assets Tools 1- Observation and Conversation 2- Project Performance appraisals 2- Conflict Management 3- Issue Log 4- Interpersonal Skills Outputs 1- Enterprise Environmental Factors Update 2- Organizational Process Assets Update 3- Change Request 4- Project Management Plan Update		
10.0 Project Communication Management	10.1 Identify Stakeholders	10.2 Plan Communication	10.3 Distribute Information	10.4 Manage Stakeholder Expectations	10.5 Report Performance	
	Inputs 1- Project Charter 2- Procurement Documents 3- Enterprise Environmental Factors 4- Organizational Process Assets Tools 1- Stakeholder Analysis 2- Expert Judgment Outputs 1- Stakeholder Register 2- Stakeholder Management Strategy	Inputs 1- Stakeholder Register 2- Stakeholder Management Strategy 3- Enterprise Environmental Factors 4- Organizational Process Assets Tools 1- Communication Requirements Analysis Outputs 1- Stakeholder Register 2- Stakeholder Management Strategy	Inputs 1- Project Management Plan 2- Performance Report 3- Enterprise Environmental Factors 4- Organizational Process Assets Tools 1- Communication Methods 2- Information Distribution Tods Outputs 1- Organizational Process Assets	Inputs 1- Stakeholder Register 2- Stakeholder Management Strategy 3- Project Management Plan 4- Issue Log 5- Change Log 6- Organizational Process Assets Tools 1- Communication Methods 2- Interpersonal Skills 3- Management Skills Outputs 1- Organizational Process Assets 2- Change Requests 3- Project Management Plan Update 4- Project Document Updates	Inputs 1- Project Management Plan 2- Work Performance Information 3- Work Performance Measurement 4- Budget Forecast 5- Organizational Process Assets Tools 1- Variance Analysis 2- Forecasting Methods 3- Communication Methods 4- Reporting Systems Outputs 1- Performance Reports 2- Organizational Process Assets Update 3- Change Request	
11.0 Project Risk Management	11.1 Plan Risk Management	11.2 Identify Risks	11.3 Perform Risks Analysis	11.4 Perform Quantitative Risk Analysis	11.5 Risk Responses	11.6 Monitor and Control Risks
	Inputs 1- Project Scope Management 2- Cost Management Plan 3- Schedule Management Plan 4- Communication Management Plan 5- Enterprise Environmental Factors 6- Organizational Process Assets Tools 1- Planning Methods and Analysis Outputs 1- Risk Management Plan	Inputs 1- Risk Management Plan 2- Activity Duration Estimate 3- Activity Cost Estimates 4- Scope Baseline 5- Stakeholder Register 6- Cost Management Plan 7- Schedule Management Plan 8- Quality Management Plan 9- Project Documents 10- Enterprise Environmental Factors 11- Organizational Process Assets Outputs 1- Risk Register	Inputs 1- Risk management plan 2- Project Scope Statement 3- Organizational Process Assets 4- Risk register Tools 1- Risk Probability and Impact Assessment 2- Probability and Impact Matrix 3- Risk Data Quality Assessment 4- Risks Urgency Assessment 5- Expert Judgment Outputs 1- Risk Register Updates	Inputs 1- Risk Register 2- Risk Management Plan 3- Cost Management Plan 4- Schedule Management Plan 5- Organizational Process Assets Tools 1- Data Gathering and Representation Techniques 2- Quantitative Risk Analysis and Modeling Techniques 3- Expert Judgment Outputs 1- Risk Register Updates	Inputs 1- Risk Register 2- Risk Management Plan Tools 1- Strategic for Negative Risks 2- Strategic for Positive Risks 3- Contingent Response Strategy 4- Expert Judgment Outputs 1- Risk Register Updates 2- Risk Related Contract Decisions 3- Project Management Plan Updates 4- Project Document Update	Inputs 1- Risk Register 2- Project Management Plan 3- Work Performance 4- Performance Report Tools 1- Risk Reassessment 2- Risk Audits 3- Variance and Trend Analysis 4- Technical Performance Management 5- Reserve Analysis 6- Status Meetings Outputs 1- Risk Register Updates 2- Organizational Process Assets 3- Project Management Plan Update 4- Project Document Updates 5- Change Request
12.0 Project Procurement Management	12.1 Plan Procurements	12.2 Conduct Procurements	12.3 Conduct Procurements	12.4 Close Procurements		
	Inputs 1- Scope Baseline 2- Requirements Documentation 3- Teaming agreements 4- Risk register 5- Risk-related Contract Decisions 6- Activity Resource requirements 7- Project Schedule 8- Activity Cost Estimates 9- Cost Performance Baseline 10- Enterprise Environmental Factors 11- Organizational Process Assets Tools 1- Make or Buy Decision 2- Expert Judgment 3- Contract Types	Inputs 1- Project Management Plan 2- Procurement Documents 3- Source Selection Criteria 4- Qualified Seller List 5- Seller Proposals 6- Project Documents 7- Make-or-buy Decisions 9- Organizational Process Assets Tools 1- Bidder Conference 2- Proposal Evaluation 3- Independent Estimate 4- Expert Judgment 5- Advertising 6- Internet search 7- Procurement Negotiation	Inputs 1- Procurement Documents 2- Project Management Plan 3- Contract 4- Performance Reports 5- Approved Change Requests 6- Work Performance Information Tools 1- Contact Change Control System 2- Procurement Performance Reviews 3- Inspections and Audits 4- Payment Systems 5- Claims Administration 6- Records Management System Output 1- Procurement Documentation 2- Change Request 3- Project Management Plan Update 4- Organizational Process Assets	Inputs 1- Procurement Documents 2- Project Management Plan Tools 1- Procurement Audits 2- Negotiated Settlements 3- Record Management System Output 1- Close Procurements 4- Organizational Process Assets Updates		

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