# **'TRICK SHEET'**

on

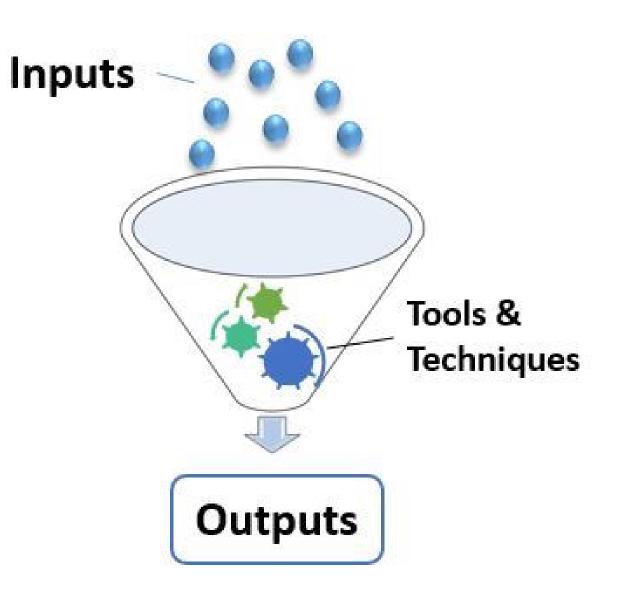
### **Project Management**

## ITTO's

# (Input, Tool & Techniques, Output)

Compiled by Abdulla PMI-ACP, SCT, CSM, PMP Based on PMBOK<sup>®</sup>GUIDE Sixth Edition





PROCESS	DESCRIPTION	GROUP	INPUT	TOOLS & TECHNIQUES	OUTPUT
Develop Project Charter	Formal authorization of the project or phase	Initiating	<ol> <li>Business Documents         <ul> <li>Business Case</li> <li>Benefit Management plan</li> </ul> </li> <li>Agreements</li> <li>Enterprise environmental Factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Data Gathering         <ul> <li>Brainstorming</li> <li>Focus Group</li> <li>Interviews</li> </ul> </li> <li>Interpersonal and Team Skills         <ul> <li>Conflict Management</li> <li>Facilitation</li> <li>Meeting Management</li> <li>Meetings</li> </ul> </li> </ol>	<ol> <li>Project charter</li> <li>Assumptions Log</li> </ol>
Develop Project Management Plan	Document actions to define, prepare, integrate, and coordinate subsidiary plans into the PMP	Planning	<ol> <li>Project charter</li> <li>Outputs from other processes</li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Data Gathering         <ul> <li>Brainstorming</li> <li>Checklists</li> <li>Focus Group</li> <li>Interviews</li> </ul> </li> <li>Interpersonal and Team Skills         <ul> <li>Conflict Management</li> <li>Facilitation</li> <li>Meeting Management</li> </ul> </li> </ol>	1. Project management plan
Direct and Manage Project Work	Execute the work defined in the project management plan to achieve requirements in scope statement.	Executing	<ol> <li>Project management plan         <ul> <li>Any Documents</li> </ul> </li> <li>Project Documents         <ul> <li>Change Log</li> <li>Lessons Learned Register</li> <li>Milestone List</li> <li>Project Communications</li> <li>Project Schedule</li> <li>Requirement Traceability Matrix</li> </ul> </li> </ol>	<ol> <li>1.Expert Judgement</li> <li>2.Project management information system</li> <li>3.Meetings</li> </ol>	<ol> <li>Deliverables</li> <li>Work performance data</li> <li>Issue Log</li> <li>Change requests</li> <li>Project management plan Updates         <ul> <li>Any components</li> <li>Project documents updates</li> <li>Activity List</li> <li>Assumptions Log</li> </ul> </li> </ol>

#### **PROJECT INTEGRATION MANAGEMENT**

			<ul> <li>Risk register</li> <li>Risk Report</li> <li>3.Approved change requests</li> <li>4.Enterprise environmental factors</li> <li>5.Organizational process assets</li> </ul>		<ul> <li>Lessons Learned Register</li> <li>Requirement Documentation</li> <li>Risk register</li> <li>Stakeholder Register</li> <li>7.Organizational Process Asset Updates</li> </ul>
Manage Project Knowledge	This is the process of using existing knowledge and creating new knowledge to achieve the project's objectives and contribute to organizational learning.	Executing	<ol> <li>Project management plan         <ul> <li>All Components</li> </ul> </li> <li>Project Documents</li> <li>Lessons learned register</li> <li>Project Team Assignment</li> <li>Resource Breakdown</li> <li>Structure</li> <li>Source Selection Criteria</li> <li>Stakeholder Register</li> <li>Deliverables</li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert Judgement</li> <li>Knowledge Management</li> <li>Information Management</li> <li>Interpersonal and Team Skills         <ul> <li>Active Listening</li> <li>Facilitation</li> <li>Leadership</li> <li>Networking</li> <li>Political Awareness</li> </ul> </li> </ol>	<ol> <li>Lessons Learned Register</li> <li>Project Management Plan Updates         <ul> <li>Any component</li> <li>Organizational process asset updates</li> </ul> </li> </ol>
Monitor and Control Project Work	Monitor and control the processes to meet the performance objectives.	Monitoring and Controlling	<ol> <li>Project management plan         <ul> <li>Any components</li> </ul> </li> <li>Project Documents</li> <li>Assumption Log         <ul> <li>Basis of Estimates</li> <li>Cost Forecasts</li> <li>Issue log</li> <li>Lessons Learned Register</li> <li>Milestone list</li> <li>Quality Reports</li> <li>Risk Register</li> <li>Risk Report</li> <li>Schedule Forecasts</li> </ul> </li> <li>Work performance information</li> <li>Agreement</li> <li>Enterprise Environment Factors</li> <li>Organizational Process Assets.</li> </ol>	<ol> <li>Expert judgment</li> <li>Data Analysis         <ul> <li>Alternative Analysis</li> <li>Cost Benefit Analysis</li> <li>Earned Value Analysis</li> <li>Root Cause Analysis</li> <li>Trend Analysis</li> <li>Variance Analysis</li> </ul> </li> <li>Decision Making</li> <li>Meetings</li> </ol>	<ol> <li>Work Performance Reports</li> <li>Change requests</li> <li>Work performance reports</li> <li>Project management plan updates         <ul> <li>Any components</li> <li>Project documents updates</li> <li>Cost Forecasts</li> <li>Issue Log</li> <li>Lessons Learned Register</li> <li>Risk Register</li> <li>Schedule Forecast</li> </ul> </li> </ol>

#### ITTO Trick Sheet: Based on PMBOK<sup>®</sup> GUIDE 6<sup>th</sup> Edition

Perform	Reviewing change	Monitoring	1.Project management plan	1. Expert judgment	1. Approved change requests
Integrated	requests, approving	and	Change Management Plan	2. Change control tools	2. Project management plan
Integrated Change Control	requests, approving change requests and controlling changes	and Controlling	<ul> <li>Change Management Plan</li> <li>Configuration Management Plan</li> <li>Scope Baseline</li> <li>Schedule Baseline</li> <li>Cost Baseline</li> <li>Cost Baseline</li> <li>Project Documents</li> <li>Basis of Estimates</li> <li>Requirement Traceability Matrix</li> <li>Risk Report</li> <li>Work performance reports</li> <li>Change requests</li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ul>	<ol> <li>Change control tools</li> <li>Data Analysis         <ul> <li>Alternative Analysis</li> <li>Cost Benefit Analysis</li> </ul> </li> <li>Decision Making         <ul> <li>Voting</li> <li>Autocratic Decision Making</li> <li>Multi criteria Decision Analysis</li> </ul> </li> <li>Meeting</li> </ol>	<ul> <li>2. Project management plan updates <ul> <li>Any components</li> </ul> </li> <li>3. Project documents updates <ul> <li>Change log</li> </ul> </li> </ul>
Close Project or Phase	Finalize all activities to formally close the project or phase.	Closing	<ol> <li>Project Charter</li> <li>Project management plan         <ul> <li>All Components</li> <li>Project documents</li> <li>Assumption Log</li> <li>Basis of Estimates</li> <li>Change Log</li> <li>Issue Log</li> <li>Lessons Learned Register</li> <li>Milestone List</li> <li>Project Communications</li> <li>Quality Control Measurement</li> <li>Quality Reports</li> <li>Requirement Documentation</li> <li>Risk Register</li> <li>Risk Report</li> </ul> </li> </ol>	<ol> <li>Expert judgment</li> <li>Data Analysis         <ul> <li>Document Analysis</li> <li>Regression Analysis</li> <li>Trend Analysis</li> <li>Variance Analysis</li> </ul> </li> <li>Meetings</li> </ol>	<ol> <li>Project Document Updates         <ul> <li>Lessons Learned Register</li> </ul> </li> <li>Final product, service, or result transition</li> <li>Final Report</li> <li>Organizational Process Asset Update</li> </ol>

6. Agreement	
7. Procurement Documentation	
8. Organizational Process Assets	

#### **PROJECT SCOPE MANAGEMENT**

PROCESS	DESCRIPTION	GROUP	INPUT	TOOLS & TECHNIQUES	OUTPUT
Plan Scope Management	Documents how the project scope will be defined, validated, and controlled.	Planning	<ol> <li>Project charter</li> <li>Project Management Plan         <ul> <li>Quality Management Plan</li> <li>Project life cycle description</li> <li>Development approach</li> </ul> </li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Data Analysis         <ul> <li>Alternative Analysis</li> </ul> </li> <li>Meetings</li> </ol>	<ol> <li>Scope management plan</li> <li>Requirements management plan</li> </ol>
Collect Requirements	Defining and documenting stakeholders' needs to ensure project objectives are met.	Planning	<ol> <li>Project charter</li> <li>Project management plan         <ul> <li>Scope management plan</li> <li>Requirements management plan</li> <li>Stakeholder engagement plan</li> </ul> </li> <li>Project documents         <ul> <li>Assumption log</li> <li>Lessons learned register</li> <li>Stakeholder register</li> </ul> </li> <li>Business documents         <ul> <li>Business case</li> </ul> </li> <li>Agreements</li> <li>Enterprise environmental</li> <li>Factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Data gathering         <ul> <li>Brainstorming</li> <li>Interviews</li> <li>Focus groups</li> <li>Questionnaires and surveys</li> <li>Benchmarking</li> </ul> </li> <li>Data analysis         <ul> <li>Document analysis</li> <li>Document analysis</li> </ul> </li> <li>Action making         <ul> <li>Voting</li> <li>Multicriteria decision analysis</li> </ul> </li> <li>Data representation         <ul> <li>Affinity diagrams</li> <li>Mind mapping</li> </ul> </li> <li>Interpersonal and team skills         <ul> <li>Nominal group technique</li> <li>Observation/conversation</li> <li>Facilitation</li> </ul> </li> </ol>	<ol> <li>Requirements documentation</li> <li>Requirements traceability matrix</li> </ol>

				<ol> <li>Context diagram</li> <li>Prototypes</li> </ol>	
Define Scope	Developing detailed description of the project and product as a basis for future decisions.	Planning	<ol> <li>Project charter</li> <li>Project management plan         <ul> <li>Scope management plan</li> <li>Scope management plan</li> </ul> </li> <li>Project documents         <ul> <li>Assumption log</li> <li>Requirements documentation</li> <li>Risk register</li> </ul> </li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Data analysis         <ul> <li>Alternatives analysis</li> </ul> </li> <li>Decision Making         <ul> <li>Multicriteria decision analysis</li> </ul> </li> <li>Interpersonal and team skills         <ul> <li>Facilitation</li> </ul> </li> <li>Product analysis</li> </ol>	<ol> <li>Project scope statement</li> <li>Project documents updates         <ul> <li>Assumption log</li> <li>Requirements</li> <li>documentation</li> <li>Requirements traceability matrix</li> <li>Stakeholder register</li> </ul> </li> </ol>
Create WBS	Subdividing major deliverables into smaller components	Planning	<ol> <li>Project management plan</li> <li>Scope management plan</li> <li>Project documents</li> <li>Project scope statement</li> <li>Requirements documentation</li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Decomposition</li> <li>Expert judgment</li> </ol>	<ol> <li>Scope baseline</li> <li>Project documents updates         <ul> <li>Assumption log</li> <li>Requirements</li> <li>documentation</li> </ul> </li> </ol>
Validate Scope	Formal acceptance of the completed project deliverables.	Monitoring and Controlling	<ol> <li>Project management plan         <ul> <li>Scope management plan</li> <li>Requirements management plan</li> <li>Scope baseline</li> </ul> </li> <li>Project documents         <ul> <li>Lessons learned register</li> <li>Quality reports</li> <li>Requirements traceability matrix</li> </ul> </li> <li>Verified deliverables</li> <li>Work performance data</li> </ol>	<ol> <li>Inspection</li> <li>Decision-making - Voting</li> </ol>	<ol> <li>Accepted deliverables</li> <li>Work performance information</li> <li>Change requests</li> <li>Project document updates</li> <li>Lessons learned register</li> <li>Requirements Documentation</li> <li>Requirements traceability matrix</li> </ol>
Control Scope	Monitoring status of the project and product scope and managing changes to	Monitoring and Controlling	<ol> <li>Project management plan</li> <li>Scope management plan</li> <li>Requirements management Plan</li> </ol>	<ol> <li>Data Analysis         <ul> <li>Variance analysis</li> <li>Trend Analysis</li> </ul> </li> </ol>	<ol> <li>Work performance information</li> <li>Change requests</li> <li>Project management plan updates</li> </ol>

scope baseline.	Change management plan	Scope management
scope baseline.		
	<ul> <li>Configuration management</li> </ul>	plan
	Plan	Scope baseline
	Scope baseline	Schedule baseline
	Performance measurement	Cost baseline
	baseline	Performance
	2. Project documents	measurement baseline
	Lessons learned register	1. Project documents
	Requirements	updates
	documentation	Lessons learned
	Requirements traceability	register
	Matrix	Requirements
	3. Work performance data	documentation
	4. Organizational process assets	Requirements
		traceability matrix

#### **PROJECT SCHEDULE MANAGEMENT**

PROCESS	DESCRIPTION	GROUP	INPUT	TOOLS & TECHNIQUES	OUTPUT
Plan Schedule Management	Documentation for Planning, developing, managing, executing, and controlling the project schedule	Planning	<ol> <li>Project charter</li> <li>Project management plan         <ul> <li>Scope management plan</li> <li>Development approach</li> </ul> </li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Data Analysis</li> <li>Meetings</li> </ol>	1. Schedule management plan
Define Activities	Identifying and documenting the specific actions to be performed to produce the project deliverables	Planning	<ol> <li>Project Management Plan         <ul> <li>Schedule management plan</li> <li>Scope baseline</li> </ul> </li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Decomposition</li> <li>Rolling wave planning</li> <li>Expert judgment</li> <li>Meeting</li> </ol>	<ol> <li>Activity list</li> <li>Activity attributes</li> <li>Milestone list</li> <li>Change requests</li> <li>Project management plan updates         <ul> <li>Schedule baseline</li> <li>Cost baseline</li> </ul> </li> </ol>
Sequence Activities	Identify and document the logical	Planning	<ol> <li>Project management plan</li> <li>Schedule management plan</li> </ol>	1. Precedence diagramming method (PDM)	1. Project schedule network diagrams

	relationships and		Scope baseline	2. Dependency determination	2. Project documents updates
	dependencies		2. Project documents	3. Leads and lags	Activity attributes
			Activity attributes	4. Project Management	Activity list
			Activity list	information system	Assumption log
			Assumption log		Milestone list
			Milestone list		
			3. Enterprise environmental		
			Factors		
			4. Organizational process assets		
Estimate	Estimate # of work	Planning	1. Project Management Plan	1. Expert judgment	1. Duration estimates
Activity	periods per activity		Schedule management plan	2. Analogous estimating	2. Basis of estimates
Durations			Scope Baseline	3. Parametric estimating	.3 Project documents updates
			2. Project Documents	4. Three-point estimating	<ul> <li>Activity attributes</li> </ul>
			Activity attributes	5. Bottom-up estimating	Assumption log
			Activity list	6. Data analysis	Lessons learned
			Assumption log	Alternatives analysis	register
			Lessons learned register	Reserve analysis	
			Milestone list	7. Decision-making techniques	
			<ul> <li>Project team assignments</li> </ul>	8. Meeting	
			Resource breakdown		
			structure		
			Resource calendars		
			Resource requirements		
			Risk register		
			3. Enterprise environmental factors		
			4. Organizational process assets		
Develop	Analyze sequences,	Planning	1. Project management plan	1. Schedule network analysis	1. Schedule baseline
Schedule	durations, resources		Schedule management plan	2. Critical path method	2. Project schedule
	and constraints to		Scope baseline	3. Resource optimization	3. Schedule data
	document project		2. Project Documents	techniques	4. Project calendars
	schedule		Activity attributes	4. Data analysis	5. Change requests
	schedule		Activity list	What-if scenario analysis	6. Project management plan
			Assumption log	Simulation	updates
			Basis of estimates	5. Leads and lags	Schedule managemen
			Duration estimates	6. Schedule compression	plan
			Lessons learned register	7. Project management	Cost baseline
			Milestone list	information system	7. Project documents update
			Project schedule network	8. Agile release planning	Activity attributes
			diagrams		Assumption log

	3. 4. 5.	<ul> <li>Project team assignments</li> <li>Resource calendars</li> <li>Resource requirements</li> <li>Risk register</li> <li>Agreement</li> <li>Enterprise environmental</li> <li>factors</li> <li>Organizational process assets</li> </ul>		<ul> <li>Duration estimates</li> <li>Lessons learned register</li> <li>Resource requirements</li> <li>Risk register</li> </ul>
Control Schedule Controlling changes	Monitoring 1. and Controlling 2. 3. 4.	<ul> <li>Project management plan</li> <li>Schedule management plan</li> <li>Schedule baseline</li> <li>Scope baseline</li> <li>Performance measurement baseline</li> <li>Project Documents</li> <li>Lessons learned register</li> <li>Project calendars</li> <li>Project schedule</li> <li>Resource calendars</li> <li>Schedule data</li> <li>Work performance data</li> </ul>	<ol> <li>Data Analysis         <ul> <li>Earned value analysis</li> <li>Iteration burndown chart</li> <li>Performance reviews</li> <li>Trend analysis</li> <li>Variance analysis</li> <li>What-if scenario analysis</li> </ul> </li> <li>Critical path method</li> <li>Project management information system</li> <li>Resource optimization</li> <li>Leads and lags</li> <li>Schedule compression</li> </ol>	<ol> <li>Work performance information</li> <li>Schedule forecasts</li> <li>Change requests</li> <li>Project management plan updates         <ul> <li>Schedule management plan</li> <li>Schedule baseline</li> <li>Cost baseline</li> <li>Performance measurement baseline</li> </ul> </li> <li>Project documents updates</li> <li>Assumption log</li> <li>Basis of estimates</li> <li>Lessons learned register</li> <li>Project schedule</li> <li>Resource calendars</li> <li>Risk register</li> <li>Schedule data</li> </ol>

#### **PROJECT COST MANAGEMENT**

PROCESS	DESCRIPTION	GROUP	INPUT	TOOLS & TECHNIQUES	OUTPUT
Plan Cost Management	Documentation for planning, managing, expending, and controlling project costs	Planning	<ol> <li>Project Charter</li> <li>Project management plan         <ul> <li>Schedule management plan</li> <li>Risk management plan</li> </ul> </li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Data Analysis</li> <li>Meetings</li> </ol>	1. Cost management plan
Estimate Cost	Develop an approximation of the costs of the resources to complete project activities	Planning	<ol> <li>Project management plan         <ul> <li>Cost management plan</li> <li>Quality management plan</li> <li>Quality management plan</li> <li>Scope baseline</li> </ul> </li> <li>Project documents         <ul> <li>Lessons learned register</li> <li>Project schedule</li> <li>Resources requirements</li> <li>Risk register</li> </ul> </li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Analogous estimating</li> <li>Parametric estimating</li> <li>Bottom-up estimating</li> <li>Three-point estimating</li> <li>Data analysis         <ul> <li>Alternatives analysis</li> <li>Reserve analysis</li> <li>Cost of quality</li> </ul> </li> <li>Project management Information System</li> <li>Decision-making         <ul> <li>Voting</li> </ul> </li> </ol>	<ol> <li>Cost estimates</li> <li>Basis of estimates</li> <li>Project documents updates         <ul> <li>Assumption log</li> <li>Lessons learned register</li> <li>Risk register</li> </ul> </li> </ol>
Determine Budget	Aggregating estimated costs to establish an authorized cost baseline.	Planning	<ol> <li>Project management plan         <ul> <li>Cost management plan</li> <li>Resource management plan</li> <li>Scope baseline</li> </ul> </li> <li>Project documents         <ul> <li>Basis of estimates</li> <li>Cost estimates</li> <li>Project schedule</li> <li>Risk register</li> </ul> </li> <li>Business documents         <ul> <li>Business case</li> <li>Benefits management plan</li> </ul> </li> <li>Agreement</li> <li>Enterprise environmental</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Cost aggregation</li> <li>Data analysis         <ul> <li>Reserve analysis</li> </ul> </li> <li>Historical information review</li> <li>Funding limit reconciliation</li> <li>Financing</li> </ol>	<ol> <li>Cost baseline</li> <li>Project funding requirements</li> <li>Project documents updates         <ul> <li>Cost estimates</li> <li>Project schedule</li> <li>Risk register</li> </ul> </li> </ol>

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Control Cost	Monitoring status	Monitoring	1. Project management plan	1. Expert judgment	1. Work performance
	of the project to	and	Cost management plan	2. Data analysis	information
	update the project budget and managing changes to the cost baseline	Controlling	<ul> <li>Cost baseline</li> <li>Performance measurement Baseline</li> <li>Project documents</li> </ul>	<ul> <li>Earned value analysis</li> <li>Variance analysis</li> <li>Trend analysis</li> <li>Reserve analysis</li> </ul>	<ol> <li>Cost forecasts</li> <li>Change requests</li> <li>Project management plan updates</li> </ol>
			<ul> <li>Lessons learned register</li> <li>Project funding requirements</li> <li>Work performance data</li> <li>Organizational process assets</li> </ul>	<ol> <li>To-complete performance index</li> <li>Project management information system</li> </ol>	<ul> <li>Cost management plan</li> <li>Cost baseline</li> <li>Performance measurement baseline</li> <li>5. Project documents updates</li> <li>Assumption log</li> </ul>
					<ul> <li>Basis of estimates</li> <li>Cost estimates</li> <li>Lessons learned register</li> <li>Risk register</li> </ul>

#### **PROJECT QUALITY MANAGEMENT**

PROCESS	DESCRIPTION	GROUP	INPUT	TOOLS & TECHNIQUES	OUTPUT
Plan Quality Management	Identifying quality Requirements and/or standards for the project and product and documenting how the project will demonstrate compliance.	Planning	<ol> <li>Project Charter</li> <li>Project management plan         <ul> <li>Requirements management plan</li> <li>Risk management plan</li> <li>Stakeholder engagement plan</li> <li>Scope baseline</li> </ul> </li> <li>Project documents         <ul> <li>Assumption log</li> <li>Requirements documentation</li> <li>Requirements traceability matrix</li> </ul> </li> </ol>	<ol> <li>Expert judgment</li> <li>Data gathering         <ul> <li>Benchmarking</li> <li>Brainstorming</li> <li>Interviews</li> </ul> </li> <li>Data analysis         <ul> <li>Cost-benefit analysis</li> <li>Cost of quality</li> </ul> </li> <li>Decision making         <ul> <li>Multicriteria decision Analysis</li> </ul> </li> <li>Data representation         <ul> <li>Flowcharts</li> <li>Logical data model</li> </ul> </li> </ol>	<ol> <li>Quality management plan</li> <li>Quality metrics</li> <li>Project management plan Updates         <ul> <li>Risk management plan</li> <li>Scope baseline</li> </ul> </li> <li>Project documents updates         <ul> <li>Lessons learned register</li> <li>Requirements traceability Matrix</li> <li>Risk register</li> <li>Stakeholder register</li> </ul> </li> </ol>

Manage Quality	Auditing the quality Requirements and the results from quality control measurements to ensure appropriate quality standards and operations definitions are used.	Executing	<ul> <li>Risk register</li> <li>Stakeholder register</li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ul> 1. Project management plan <ul> <li>Quality management plan</li> <li>Quality control measurements</li> <li>Quality metrics</li> <li>Risk report</li> </ul> 3. Organizational process assets	<ul> <li>Matrix diagrams         <ul> <li>Mind mapping</li> </ul> </li> <li>Test and inspection planning</li> <li>Meetings</li> <li>Data gathering         <ul> <li>Checklists</li> </ul> </li> <li>Data analysis         <ul> <li>Alternatives analysis</li> <li>Document analysis</li> <li>Process analysis</li> <li>Root cause analysis</li> <li>Decision making                 <ul> <li>Multicriteria decision analysis</li> </ul> </li> <li>Data representation                 <ul> <li>Affinity diagrams</li> <li>Cause-and-effect diagrams</li> <li>Flowcharts</li> <li>Histograms</li> <li>Scatter diagrams</li> <li>Scatter diagrams</li> <li>Scatter diagrams</li> <li>Quality improvement methods</li> <li>Deta sathering</li> <li>Deta sathering</li> <li>Deta sathering</li> <li>Deta sathering</li> <li>Matrix diagrams</li> <li>Scatter diagrams</li> <li>Scatter diagrams</li> <li>Design for X</li> <li>Problem solving</li> <li>Data sathering</li></ul></li></ul></li></ul>	<ol> <li>Quality reports</li> <li>Test and evaluation Documents</li> <li>Change requests</li> <li>Project management plan updates         <ul> <li>Quality management plan</li> <li>Scope baseline</li> <li>Schedule baseline</li> <li>Cost baseline</li> </ul> </li> <li>Project documents updates         <ul> <li>Issue log</li> <li>Lessons learned register</li> <li>Risk register</li> </ul> </li> </ol>
Control Quality	Monitoring and recording results of executing the quality activities to assess performance and recommend necessary changes.	Monitoring and Controlling	<ol> <li>Project management plan         Quality management plan         Project documents         <ul> <li>Project documents</li> <li>Lessons learned register</li> <li>Quality metrics</li> <li>Test and evaluation documents</li> <li>Approved change requests</li> <li>Deliverables</li> <li>Work performance data</li> <li>Enterprise environmental factors</li> </ul> </li> </ol>	<ol> <li>Data gathering         <ul> <li>Checklists</li> <li>Check sheets</li> <li>Statistical sampling</li> <li>Questionnaires and surveys</li> </ul> </li> <li>Data analysis         <ul> <li>Performance reviews</li> <li>Root cause analysis</li> <li>Inspection</li> <li>Testing/product evaluations</li> </ul> </li> </ol>	<ol> <li>Quality control measurements</li> <li>Verified deliverables</li> <li>Work performance information</li> <li>Change requests</li> <li>Project management plan updates         <ul> <li>Quality management plan</li> <li>Project documents updates</li> </ul> </li> </ol>

7. Organizational process assets	<ul> <li>5. Data representation <ul> <li>Cause-and-effect diagrams</li> <li>Control charts</li> <li>Histogram</li> <li>Scatter diagrams</li> </ul> </li> </ul>	<ul> <li>Issue log</li> <li>Lessons learned register</li> <li>Risk register</li> <li>Test and evaluation documents</li> </ul>
	6. Meetings	documents

#### PROJECT RESOURCE MANAGEMENT

PROCESS	DESCRIPTION	GROUP	INPUT	TOOLS & TECHNIQUES	OUTPUT
Plan Resource management	Estimate, acquire, manage, and utilize physical and team resources.	Planning	<ol> <li>Project charter</li> <li>Project management plan         <ul> <li>Quality management plan</li> <li>Scope baseline</li> <li>Project documents</li> <li>Project schedule</li> <li>Requirements documentation</li> <li>Risk register</li> <li>Stakeholder register</li> </ul> </li> <li>Enterprise environmental Factors</li> <li>Organizational process assets</li> </ol>	<ul> <li>Expert judgment</li> <li>Data representation <ul> <li>Hierarchical charts</li> <li>Responsibility assignment matrix</li> <li>Text-oriented formats</li> </ul> </li> <li>Organizational theory</li> <li>Meetings</li> </ul>	Resource management plan Team charter Project documents updates • Assumption log • Risk register
Estimate Activity Resources	Estimating team resources and the type and quantities of material, equipment, and supplies necessary to perform project work.	Planning	<ol> <li>Organizational process assets</li> <li>Project management plan         <ul> <li>Resource management plan</li> <li>Scope baseline</li> </ul> </li> <li>Project documents         <ul> <li>Activity attributes</li> <li>Activity list</li> <li>Assumption log</li> <li>Cost estimates</li> <li>Resource calendars</li> <li>Risk register</li> </ul> </li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Bottom-up estimating</li> <li>Analogous estimating</li> <li>Parametric estimating</li> <li>Data analysis         <ul> <li>Alternatives analysis</li> <li>Project management information system</li> </ul> </li> <li>Meetings</li> </ol>	<ol> <li>Resource requirements</li> <li>Basis of estimates</li> <li>Resource breakdown structure</li> <li>Project documents updates         <ul> <li>Activity attributes</li> <li>Assumption log</li> <li>Lessons learned register</li> </ul> </li> </ol>

#### ITTO Trick Sheet: Based on PMBOK<sup>®</sup> GUIDE 6<sup>th</sup> Edition

Acquire Resources	Obtaining required project resources.	Executing	1.Project management plan <ul><li>Resource management plan</li><li>Procurement management plan</li><li>Cost baseline</li></ul> 2.2.Project documents3.•Project schedule4.•Resource calendars•Stakeholder register3.Enterprise environmental factors4.Organizational process assets	<ul> <li>Multicriteria decision analysis</li> <li>Interpersonal and team skills</li> <li>Negotiation</li> <li>Pre-assignment</li> </ul>	<ol> <li>Physical resource assignments</li> <li>Project team assignments</li> <li>Resource calendars</li> <li>Change requests</li> <li>Project management plan updates         <ul> <li>Resource management plan</li> <li>Ocost baseline</li> </ul> </li> <li>Project documents updates         <ul> <li>Cost baseline</li> <li>Project documents</li> <li>updates</li> <li>Lessons learned register</li> <li>Project schedule</li> <li>Resource breakdown structure</li> <li>Resource requirements</li> <li>Risk register</li> <li>Stakeholder register</li> </ul> </li> <li>Enterprise environmental factors updates</li> <li>Organizational process</li> </ol>
Develop Team	Develop individual or group skills to enhance project performance.	Executing	1.Project management plan1.•Resource management plan2.2.Project documents3.•Lessons learned register4.•Project schedule4.•project team assignments•Resource calendars•Team charter3.Enterprise environmental factors5.4.Organizational process assets6.	<ul> <li>Virtual teams</li> <li>Communication technology</li> <li>Interpersonal and team skills</li> <li>Conflict management</li> <li>Influencing</li> <li>Motivation</li> <li>Negotiation</li> <li>Team building</li> <li>Recognition and rewards</li> <li>Training</li> </ul>	<ul> <li>assets updates</li> <li>Team performance assessments</li> <li>Change requests</li> <li>Project management plan updates         <ul> <li>Resource management plan</li> </ul> </li> <li>Project documents updates         <ul> <li>Lessons learned register</li> <li>Project schedule</li> <li>Project team</li> </ul> </li> </ul>

Manage Project Team	Track team performance, providing feedback, resolving issues, managing changes to optimize project performance.	Executing	<ol> <li>Project management plan         <ul> <li>Resource management plan</li> </ul> </li> <li>Project documents         <ul> <li>Issue log</li> <li>Lessons learned register</li> <li>Project team assignments</li> <li>Team charter</li> </ul> </li> <li>Work performance reports</li> <li>Team performance assessments</li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Meetings</li> <li>Interpersonal and team skills         <ul> <li>Conflict management</li> <li>Decision making</li> <li>Emotional intelligence</li> <li>Influencing</li> <li>Leadership</li> </ul> </li> <li>Project management         <ul> <li>information system</li> </ul> </li> </ol>	assignments <ul> <li>Resource calendars</li> <li>Team charter</li> </ul> <li>5. Enterprise environmental factors updates</li> <li>6. Organizational process assets update</li> <li>1. Change requests</li> <li>2. Project management plan updates <ul> <li>Resource management plan updates</li> <li>Resource management plan</li> <li>Schedule baseline</li> <li>Cost baseline</li> </ul> </li> <li>3. Project documents updates <ul> <li>Issue log</li> <li>Lessons learned register</li> <li>Project team assignments</li> </ul> </li> <li>4. Enterprise environmental factors updates</li>
Control Resource	Ensuring that the physical resources assigned and allocated to the project are available as planned, as well as monitoring the planned versus actual use of resources, and performing corrective action as necessary.	Monitoring and Controlling	<ol> <li>Project management plan         <ul> <li>Resource management plan</li> </ul> </li> <li>Project documents         <ul> <li>Issue log</li> <li>Lessons learned register</li> <li>Physical resource assignments</li> <li>Project schedule</li> <li>Resource breakdown structure</li> <li>Resource requirements</li> <li>Risk register</li> </ul> </li> <li>Work performance data</li> <li>Agreements</li> <li>Organizational process assets</li> </ol>	<ol> <li>Data analysis         <ul> <li>Alternatives analysis</li> <li>Cost-benefit analysis</li> <li>Performance reviews</li> <li>Trend analysis</li> </ul> </li> <li>Problem solving</li> <li>Interpersonal and team skills         <ul> <li>Negotiation</li> <li>Influencing</li> </ul> </li> <li>Project management information system</li> </ol>	<ol> <li>Work performance information</li> <li>Change requests</li> <li>Project management plan updates         <ul> <li>Resource management plan</li> <li>Schedule baseline</li> <li>Cost baseline</li> </ul> </li> <li>Project documents updates         <ul> <li>Assumption log</li> <li>Issue log</li> <li>Lessons learned register</li> </ul> </li> </ol>

		٠	Physical resource assignments Resource breakdown
		٠	Resource breakdown
			structure
		٠	Risk register

#### **PROJECT COMMUNICATION MANAGEMENT**

PROCESS	DESCRIPTION	GROUP	INPUT	TOOLS & TECHNIQUES	ОИТРИТ
Plan Communication	Developing an appropriate approach and plan for project Communications based on stakeholder's information needs and requirements, and available organizational assets	Planning	<ol> <li>Project charter</li> <li>Project management plan         <ul> <li>Resource management plan</li> <li>Stakeholder engagement plan</li> </ul> </li> <li>Project documents         <ul> <li>Requirements documentation</li> <li>Stakeholder register</li> </ul> </li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Communication requirements analysis</li> <li>Communication technology</li> <li>Communication models</li> <li>Communication methods</li> <li>Interpersonal and team skills         <ul> <li>Communication styles assessment</li> <li>Political awareness</li> <li>Cultural awareness</li> </ul> </li> <li>Stakeholder engagement assessment matrix</li> <li>Meetings</li> </ol>	<ol> <li>Communications management plan</li> <li>Project management plan updates         <ul> <li>Stakeholder engagement plan</li> </ul> </li> <li>Project documents updates         <ul> <li>Project schedule</li> <li>Stakeholder register</li> </ul> </li> </ol>
Manage Communications	Process of creating, collecting, distributing, storing, retrieving, and the ultimate disposition of project information in accordance with the communications management plan	Executing	<ol> <li>Project management plan         <ul> <li>Resource management plan</li> <li>Communications management plan</li> <li>Stakeholder engagement plan</li> </ul> </li> <li>Project documents         <ul> <li>Change log</li> <li>Issue log</li> <li>Lessons learned register</li> <li>Quality report</li> </ul> </li> </ol>	<ol> <li>Communication technology</li> <li>Communication methods</li> <li>Communication skills         <ul> <li>Communication competence</li> <li>Feedback</li> <li>Nonverbal</li> <li>Presentations</li> </ul> </li> <li>Project management information system</li> <li>Project reporting</li> <li>Interpersonal and team skills         <ul> <li>Active listening</li> </ul> </li> </ol>	<ol> <li>Project communications</li> <li>Project management plan updates         <ul> <li>Communications management plan</li> <li>Stakeholder engagement plan</li> </ul> </li> <li>Project documents updates         <ul> <li>Issue log</li> <li>Lessons learned register</li> </ul> </li> </ol>

		<ul> <li>Risk report</li> <li>Stakeholder register</li> <li>Work performance reports</li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ul>	<ul> <li>Conflict management</li> <li>Cultural awareness</li> <li>Meeting management</li> <li>Networking</li> <li>Political awareness</li> <li>7. Meetings</li> </ul>	<ul> <li>Project schedule</li> <li>Risk register</li> <li>Stakeholder register</li> <li>Organizational process assets updates</li> </ul>
Communications Communications commut through project ensure needs of stakeho The key process is that i optimal among	and and Controlling	<ol> <li>Project management plan         <ul> <li>Resource management plan</li> <li>Communications management plan</li> <li>Stakeholder engagement plan</li> <li>Stakeholder engagement plan</li> </ul> </li> <li>Project documents         <ul> <li>Issue log</li> <li>Lessons learned register</li> <li>Project communications</li> </ul> </li> <li>Work performance data</li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Project management information system</li> <li>Data analysis         <ul> <li>Stakeholder engagement assessment matrix</li> </ul> </li> <li>Interpersonal and team skills         <ul> <li>Observation/conversation</li> </ul> </li> <li>Meetings</li> </ol>	<ol> <li>Work performance information</li> <li>Change requests</li> <li>Project management plan updates         <ul> <li>Communications management plan</li> <li>Stakeholder engagement plan</li> </ul> </li> <li>Project documents updates         <ul> <li>Issue log</li> <li>Lessons learned register</li> <li>Stakeholder register</li> </ul> </li> </ol>

#### **PROJECT RISK MANAGEMENT**

PROCESS	DESCRIPTION	GROUP	INPUT	TOOLS & TECHNIQUES	OUTPUT
Plan Risk Management	Determine approach and plan risk mgt activities	Planning	<ol> <li>Project charter</li> <li>Project management plan         <ul> <li>All components</li> <li>Project documents</li> <li>Stakeholder register</li> </ul> </li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Data analysis         <ul> <li>Stakeholder analysis</li> </ul> </li> <li>Meetings</li> </ol>	1. Risk management plan
Identify Risks	Determine and document characteristics of	Planning	<ol> <li>Project management plan</li> <li>Requirements management plan</li> </ol>	<ol> <li>Expert judgment</li> <li>Data gathering         <ul> <li>Brainstorming</li> </ul> </li> </ol>	<ol> <li>Risk register</li> <li>Risk report</li> <li>Project documents</li> </ol>

	potential risks		<ul> <li>Schedule management plan</li> <li>Cost management plan</li> <li>Quality management plan</li> <li>Resource management plan</li> <li>Risk management plan</li> <li>Scope baseline</li> <li>Schedule baseline</li> <li>Cost baseline</li> <li>Cost baseline</li> <li>Project documents</li> <li>Assumption log</li> <li>Cost estimates</li> <li>Duration estimates</li> <li>Issue log</li> <li>Lessons learned register</li> <li>Requirements documentation</li> <li>Resource requirements</li> <li>Stakeholder register</li> <li>Agreements</li> <li>Procurement documentation</li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ul>	<ul> <li>Checklists</li> <li>Interviews</li> <li>Data analysis</li> <li>Root cause analysis</li> <li>Assumption and constraint analysis</li> <li>SWOT analysis</li> <li>Document analysis</li> <li>Interpersonal and team skills</li> <li>Facilitation</li> <li>Prompt lists</li> <li>Meetings</li> </ul>	updates <ul> <li>Assumption log</li> <li>Issue log</li> <li>Lessons learned register</li> </ul>
Perform Qualitative Risk Analysis	Conduct qualitative analysis of risks and conditions and prioritize their effects	Planning	<ol> <li>Organizational process assets</li> <li>Project management plan         <ul> <li>Risk management plan</li> </ul> </li> <li>Project documents         <ul> <li>Assumption log</li> <li>Risk register</li> <li>Stakeholder register</li> </ul> </li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Data gathering         <ul> <li>Interviews</li> </ul> </li> <li>Data analysis         <ul> <li>Risk data quality assessment</li> <li>Risk probability and impact assessment</li> <li>Assessment of other risk parameters</li> </ul> </li> <li>Interpersonal and team skills         <ul> <li>Facilitation</li> <li>Risk categorization</li> <li>Data representation             <ul> <li>Probability and impact</li> </ul> </li> </ul></li></ol>	<ol> <li>Project documents updates         <ul> <li>Assumption log</li> <li>Issue log</li> <li>Risk register</li> <li>Risk report</li> </ul> </li> </ol>

Perform Quantitative Risk Analysis	Measure probability and	Planning	<ol> <li>Project management plan         <ul> <li>Risk management plan</li> <li>Scope baseline</li> </ul> </li> </ol>	matrix <ul> <li>Hierarchical charts</li> </ul> <li>1. Meetings <ul> <li>1. Expert judgment</li> <li>2. Data gathering <ul> <li>Interviews</li> </ul> </li> </ul></li>	<ol> <li>Project documents updates         <ul> <li>Risk Report</li> </ul> </li> </ol>
	consequences of risks and estimate implications for project objectives		<ul> <li>Schedule baseline</li> <li>Cost baseline</li> <li>Project documents</li> <li>Assumption log</li> <li>Basis of estimates</li> <li>Cost estimates</li> <li>Cost forecasts</li> <li>Duration estimates</li> <li>Milestone list</li> <li>Resource requirements</li> <li>Risk register</li> <li>Risk report</li> <li>Schedule forecasts</li> </ul> 3. Enterprise environmental factors 4. Organizational process assets	<ul> <li>3. Interpersonal and team skills <ul> <li>Facilitation</li> </ul> </li> <li>4. Representations of uncertainty</li> <li>5. Data analysis <ul> <li>Simulations</li> <li>Sensitivity analysis</li> <li>Decision tree analysis</li> <li>Influence diagrams</li> </ul> </li> </ul>	
Plan Risk Responses	Develop options and actions to enhance opportunities and reduce threats to the project's objectives	Planning	<ol> <li>Project management plan         <ul> <li>Resource management plan</li> <li>Risk management plan</li> <li>Risk management plan</li> <li>Cost baseline</li> </ul> </li> <li>Project documents         <ul> <li>Lessons learned register</li> <li>Project schedule</li> <li>Project team assignments</li> <li>Resource calendars</li> <li>Risk register</li> <li>Risk report</li> <li>Stakeholder register</li> </ul> </li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Data gathering         <ul> <li>Interviews</li> </ul> </li> <li>Interpersonal and team skills         <ul> <li>Facilitation</li> </ul> </li> <li>Strategies for threats</li> <li>Strategies for opportunities</li> <li>Contingent response strategies</li> <li>Strategies for overall project risk</li> <li>Data analysis         <ul> <li>Alternatives analysis</li> <li>Cost-benefit analysis</li> </ul> </li> <li>Decision making         <ul> <li>Multicriteria decision analysis</li> </ul> </li> </ol>	<ol> <li>Change requests</li> <li>Project management plan updates</li> <li>Schedule management plan</li> <li>Cost management plan</li> <li>Quality management plan</li> <li>Resource management plan</li> <li>Resource management plan</li> <li>Procurement management plan</li> <li>Scope baseline</li> <li>Schedule baseline</li> <li>Cost baseline</li> <li>Project documents</li> </ol>

Implement Risk Responses	Implementing agreed-upon risk response plans.	Executing	<ol> <li>Project management plan         <ul> <li>Risk management plan</li> </ul> </li> <li>Project documents         <ul> <li>Lessons learned register</li> <li>Risk register</li> <li>Risk report</li> </ul> </li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Interpersonal and team skills         <ul> <li>Influencing</li> <li>Project management information system</li> </ul> </li> </ol>	updates Assumption log Cost forecasts Lessons learned register Project schedule Project team assignments Risk register Risk report Change requests Project documents updates Issue log Lessons learned register Project team assignments Risk register
Monitor Risk	Monitor residual risks, identifying new risks, executing risk response plans and evaluating their effectiveness.	Monitoring and Control	<ol> <li>Project management plan         <ul> <li>Risk management plan</li> </ul> </li> <li>Project documents         <ul> <li>Issue log</li> <li>Lessons learned register</li> <li>Risk register</li> <li>Risk report</li> <li>Work performance data</li> <li>Work performance reports</li> </ul> </li> </ol>	<ol> <li>Data analysis         <ul> <li>Technical performance analysis</li> <li>Reserve analysis</li> </ul> </li> <li>Audits</li> <li>Meetings</li> </ol>	<ul> <li>Risk report</li> <li>Work performance information</li> <li>Change requests</li> <li>Project management plan updates         <ul> <li>Any component</li> <li>Project documents</li> <li>updates</li> <li>Assumption log</li> <li>Issue log</li> <li>Lessons learned register</li> <li>Risk register</li> <li>Risk report</li> </ul> </li> <li>Organizational process assets updates</li> </ul>

#### PROJECT PROCUREMENT MANAGEMENT

PROCESS	DESCRIPTION	GROUP	INPUT	TOOLS & TECHNIQUES	OUTPUT
Plan Procurement Management	Determine what, how and when to procure. Prepare procurement documents to support vendor selection and develop the procurement SOW.	Planning	<ol> <li>Project charter</li> <li>Business documents         <ul> <li>Business case</li> <li>Benefits management plan</li> </ul> </li> <li>Project management plan         <ul> <li>Scope management plan</li> <li>Quality management plan</li> <li>Quality management plan</li> <li>Resource management plan</li> <li>Scope baseline</li> </ul> </li> <li>Project documents         <ul> <li>Milestone list</li> <li>Project team assignments</li> <li>Requirements documentation</li> <li>Requirements traceability matrix</li> <li>Resource requirements</li> <li>Risk register</li> <li>Stakeholder register</li> </ul> </li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Data gathering         <ul> <li>Market research</li> <li>Data analysis                 <ul> <li>Make-or-buy analysis</li> </ul> </li> <li>Source selection analysis</li> </ul> </li> <ul> <li>Meetings</li> </ul> </ol>	<ol> <li>Procurement management plan</li> <li>Procurement strategy</li> <li>Bid documents</li> <li>Procurement statement of work</li> <li>Source selection criteria</li> <li>Make-or-buy decisions</li> <li>Independent cost estimates</li> <li>Change requests</li> <li>Project documents updates</li> <li>Lessons learned register</li> <li>Milestone list</li> <li>Requirements documentation</li> <li>Requirements traceability matrix</li> <li>Risk register</li> <li>Stakeholder register</li> <li>Organizational process assets updates</li> </ol>
Conduct Procurement	Select from potential sellers	Executing	<ol> <li>Project management plan</li> <li>Scope management plan</li> <li>Requirements management plan</li> <li>Communications management plan</li> <li>Risk management plan</li> </ol>	<ol> <li>Expert judgment</li> <li>Advertising</li> <li>Bidder conferences</li> <li>Data analysis         <ul> <li>Proposal evaluation</li> </ul> </li> <li>Interpersonal and team skills         <ul> <li>Negotiation</li> </ul> </li> </ol>	<ol> <li>Selected sellers</li> <li>Agreements</li> <li>Change requests</li> <li>Project management plan updates         <ul> <li>Requirements management plan</li> </ul> </li> </ol>

Control	Manage seller	Monitoring	<ul> <li>Procurement management plan</li> <li>Configuration management plan</li> <li>Cost baseline</li> <li>Project documents</li> <li>Lessons learned register</li> <li>Project schedule</li> <li>Requirements documentation</li> <li>Risk register</li> <li>Stakeholder register</li> <li>Procurement documentation</li> <li>Seller proposals</li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> <li>1. Project management plan</li> <li>1. Expert judgment</li> </ul>	
Procurement	relationship, review seller performance and manage contract related changes	and Controlling	<ul> <li>Requirements management plan</li> <li>Risk management plan</li> <li>Procurement management plan</li> <li>Change management plan</li> <li>Change management plan</li> <li>Change management plan</li> <li>Change management plan</li> <li>Schedule baseline</li> <li>Assumption log</li> <li>Lessons learned register</li> <li>Milestone list</li> <li>Quality reports</li> <li>Requirements documentation</li> <li>Requirements traceability</li> <li>Claims administra</li> <li>Data analysis</li> <li>Performance</li> <li>Earned value</li> <li>Trend analysis</li> <li>Audits</li> </ul>	informationreviews3. Procurementanalysisdocumentation updates

matrix <ul> <li>Risk register</li> <li>Stakeholder register</li> </ul> <li>3. Agreements <ul> <li>4. Procurement documentation</li> <li>5. Approved change requests</li> <li>6. Work performance data</li> <li>7. Enterprise environmental factors</li> </ul> </li>	<ul> <li>Resource requirements</li> <li>Requirements traceability matrix</li> <li>Risk register</li> <li>Stakeholder register</li> <li>Organizational process assets updates</li> </ul>
factors 8. Organizational process assets	

#### PROJECT STAKEHOLDER MANAGEMENT

PROCESS	DESCRIPTION	GROUP	INPUT	TOOLS & TECHNIQUES	Ουτρυτ
Identify Stakeholders	Documenting stakeholders, interest, power and expectations	Initiating	<ol> <li>Project charter</li> <li>Business documents         <ul> <li>Business case</li> <li>Benefits management plan</li> </ul> </li> <li>Project management plan         <ul> <li>Communications management plan</li> <li>Stakeholder engagement plan</li> </ul> </li> <li>Project documents         <ul> <li>Change log</li> <li>Issue log</li> <li>Requirements documentation</li> </ul> </li> <li>Agreements</li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ol>	<ol> <li>Expert judgment</li> <li>Data gathering         <ul> <li>Questionnaires and surveys</li> <li>Brainstorming</li> </ul> </li> <li>Data analysis         <ul> <li>Stakeholder analysis</li> <li>Document analysis</li> </ul> </li> <li>Data representation         <ul> <li>Stakeholder mapping/ representation</li> </ul> </li> <li>Meetings</li> </ol>	<ol> <li>Stakeholder register</li> <li>Change requests</li> <li>Project management plan updates         <ul> <li>Requirements management plan</li> <li>Communications management plan</li> <li>Risk management plan</li> <li>Stakeholder engagement plan</li> </ul> </li> <li>Project documents updates         <ul> <li>Assumption log</li> <li>Issue log</li> <li>Risk register</li> </ul> </li> </ol>
Plan Stakeholder Management	Strategies to effectively engage stakeholders	Planning	<ol> <li>Project charter</li> <li>Project management plan</li> <li>Resource management</li> </ol>	<ol> <li>Expert judgment</li> <li>Data gathering</li> <li>Benchmarking</li> </ol>	8. Stakeholder engagement plan

Manage Stakeholder Engagement	throughout the project life cycle, based on the analysis of their needs, interests, and potential impact on project success	Executing	<ul> <li>plan</li> <li>Communications management plan</li> <li>Risk management plan</li> <li>Risk management plan</li> <li>Project documents <ul> <li>Assumption log</li> <li>Change log</li> <li>Issue log</li> <li>Project schedule</li> <li>Risk register</li> <li>Stakeholder register</li> </ul> </li> <li>Agreements</li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> <li>Project management plan</li> <li>Communications management plan</li> <li>Risk management plan</li> <li>Stakeholder engagement plan</li> <li>Change management plan</li> <li>Stakeholder engagement plan</li> </ul>	<ul> <li>4. Data analysis <ul> <li>Assumption and constraint analysis</li> <li>Root cause analysis</li> </ul> </li> <li>5. Decision making <ul> <li>Prioritization/ranking</li> </ul> </li> <li>6. Data representation <ul> <li>Mind mapping</li> <li>Stakeholder engagement assessment matrix</li> </ul> </li> <li>7. Meetings</li> </ul> <li>1. Expert judgment <ul> <li>Communication skills</li> <li>Feedback</li> </ul> </li> <li>3. Interpersonal and team skills <ul> <li>Conflict management</li> <li>Cultural awareness</li> <li>Negotiation</li> <li>Observation/conversation</li> <li>Political awareness</li> </ul> </li> <li>4. Ground rules</li> <li>5. Meetings</li>	<ol> <li>Change requests</li> <li>Project management plan updates</li> <li>Communications management plan</li> <li>Stakeholder engagement plan</li> <li>Stakeholder</li> <li>engagement plan</li> <li>engagement plan&lt;</li></ol>
			<ul> <li>Lessons learned register</li> <li>Stakeholder register</li> <li>Enterprise environmental factors</li> <li>Organizational process assets</li> </ul>		<ul> <li>Lessons learned register</li> <li>Stakeholder register</li> </ul>
Monitor Stakeholder Engagement	Monitoring overall project stakeholder relationships and adjusting strategies and plans for engaging stakeholders	Monitoring and Controlling	<ol> <li>Project management plan</li> <li>Resource management plan</li> <li>Communications management plan</li> <li>Stakeholder engagement plan</li> </ol>	<ol> <li>Data analysis         <ul> <li>Alternatives analysis</li> <li>Root cause analysis</li> <li>Stakeholder analysis</li> </ul> </li> <li>Decision making         <ul> <li>Multicriteria decision analysis</li> <li>Voting</li> </ul> </li> </ol>	<ol> <li>Work performance information</li> <li>Change requests</li> <li>Project management plan updates         <ul> <li>Resource management plan</li> </ul> </li> </ol>

2. Project documentsIssue logLessons learned registerProject communicationsRisk registerStakeholder registerWork performance dataHenterprise environmental factorsfactorsStational process assets	<ol> <li>Data representation         <ul> <li>Stakeholder engagement assessment matrix</li> </ul> </li> <li>Communication skills         <ul> <li>Feedback</li> <li>Presentations</li> </ul> </li> <li>Interpersonal and team skills         <ul> <li>Active listening</li> <li>Cultural awareness</li> <li>Leadership</li> <li>Networking</li> <li>Political awareness</li> </ul> </li> </ol>	<ul> <li>Communications management plan</li> <li>Stakeholder engagement plan</li> <li>Project documents updates</li> <li>Issue log</li> <li>Lessons learned register</li> <li>Risk register</li> <li>Stakeholder register</li> </ul>
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## Contact!

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