

## Planning Process Group Overview

Process	Inputs	Tools & Techniques	Outputs
Develop Project Management Plan	<ol style="list-style-type: none"><li>1. Project charter</li><li>2. Outputs from other processes</li><li>3. Enterprise environmental factors</li><li>4. Organizational process assets</li></ol>	<ol style="list-style-type: none"><li>1. Expert judgment</li><li>2. Data gathering<ul style="list-style-type: none"><li>• Brainstorming</li><li>• Checklists</li><li>• Focus groups</li><li>• Interviews</li></ul></li><li>3. Interpersonal and team skills<ul style="list-style-type: none"><li>• Conflict management</li><li>• Facilitation</li><li>• Meeting management</li></ul></li><li>4. Meetings</li></ol>	<ol style="list-style-type: none"><li>1. Project management plan</li></ol>
Plan Scope Management	<ol style="list-style-type: none"><li>1. Project charter</li><li>2. Project management plan</li><li>3. Enterprise environmental factors</li><li>4. Organizational process assets</li></ol>	<ol style="list-style-type: none"><li>1. Expert judgment</li><li>2. Data analysis</li><li>3. Meetings</li></ol>	<ol style="list-style-type: none"><li>1. Scope management plan</li><li>2. Requirements management plan</li></ol>
Collect Requirements	<ol style="list-style-type: none"><li>1. Project charter</li><li>2. Project management plan</li><li>3. Project documents</li><li>4. Business documents</li><li>5. Agreements</li><li>6. Enterprise environmental factors</li><li>7. Organizational process assets</li></ol>	<ol style="list-style-type: none"><li>1. Expert judgment</li><li>2. Data gathering</li><li>3. Data analysis</li><li>4. Decision making</li><li>5. Data representation</li><li>6. Interpersonal and team skills</li><li>7. Context diagrams</li><li>8. Prototypes</li></ol>	<ol style="list-style-type: none"><li>1. Requirements documentation</li><li>2. Requirements traceability matrix</li></ol>

Define Scope	<ol style="list-style-type: none"> <li>1. Project charter</li> <li>2. Project management plan</li> <li>3. Project documents</li> <li>4. Enterprise environmental factors</li> <li>5. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Data analysis</li> <li>3. Decision making</li> <li>4. Interpersonal and team skills</li> <li>5. Product analysis</li> </ol>	<ol style="list-style-type: none"> <li>1. Project scope statement</li> <li>2. Project documents updates</li> </ol>
Create WBS	<ol style="list-style-type: none"> <li>1. Project management plan</li> <li>2. Project documents</li> <li>3. Enterprise environmental factors</li> <li>4. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Decomposition</li> </ol>	<ol style="list-style-type: none"> <li>1. Scope baseline</li> <li>2. Project documents updates</li> </ol>
Plan Schedule Management	<ol style="list-style-type: none"> <li>1. Project charter</li> <li>2. Project management plan</li> <li>3. Enterprise environmental factors</li> <li>4. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Data analysis</li> <li>3. Meetings</li> </ol>	<ol style="list-style-type: none"> <li>1. Schedule management plan</li> </ol>
Define Activities	<ol style="list-style-type: none"> <li>1. Project management plan</li> <li>2. Enterprise environmental factors</li> <li>3. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Decomposition</li> <li>3. Rolling wave planning</li> <li>4. Meetings</li> </ol>	<ol style="list-style-type: none"> <li>1. Activity list</li> <li>2. Activity attributes</li> <li>3. Milestone list</li> <li>4. Change requests</li> <li>5. Project management plan updates</li> </ol>
Sequence Activities	<ol style="list-style-type: none"> <li>1. Project management plan</li> <li>2. Project documents</li> <li>2. Enterprise environmental factors</li> <li>3. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Precedence diagramming method (PDM)</li> <li>2. Dependency determination and integration</li> <li>3. Leads and lags</li> <li>4. Project management information system</li> </ol>	<ol style="list-style-type: none"> <li>1. Project schedule network diagrams</li> <li>2. Project documents updates</li> </ol>

Estimate Activity Durations	<ol style="list-style-type: none"> <li>1. Project management plan</li> <li>2. Project documents</li> <li>3. Enterprise environmental factors</li> <li>4. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Analogous estimating</li> <li>3. Parametric estimating</li> <li>4. Three-point estimating</li> <li>5. Bottom-up estimating</li> <li>6. Data analysis</li> <li>7. Decision making</li> <li>8. Meetings</li> </ol>	<ol style="list-style-type: none"> <li>1. Duration estimates</li> <li>2. Basis of estimates</li> <li>3. Project documents updates</li> </ol>
Develop Schedule	<ol style="list-style-type: none"> <li>1. Project management plan</li> <li>2. Project documents</li> <li>3. Agreements</li> <li>3. Enterprise environmental factors</li> <li>4. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Schedule network analysis</li> <li>2. Critical path method</li> <li>3. Resource optimization</li> <li>4. Data analysis</li> <li>5. Leads and lags</li> <li>6. Schedule compression</li> <li>7. Project management information system</li> <li>8. Agile release planning</li> </ol>	<ol style="list-style-type: none"> <li>1. Schedule baseline</li> <li>2. Project schedule</li> <li>3. Schedule data</li> <li>4. Project calendars</li> <li>5. Change requests</li> <li>6. Project management plan updates</li> <li>7. Project documents updates</li> </ol>
Plan Cost Management	<ol style="list-style-type: none"> <li>1. Project charter</li> <li>2. Project management plan</li> <li>3. Enterprise environmental factors</li> <li>4. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Data analysis</li> <li>3. Meetings</li> </ol>	<ol style="list-style-type: none"> <li>1. Cost management plan</li> </ol>
Estimate Costs	<ol style="list-style-type: none"> <li>1. Project management plan</li> <li>2. Project documents</li> <li>3. Enterprise environmental factors</li> <li>4. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Analogous estimating</li> <li>3. Parametric estimating</li> <li>4. Bottom-up estimating</li> <li>5. Three-point estimating</li> <li>6. Data analysis</li> <li>7. Project management information system</li> <li>8. Decision making</li> </ol>	<ol style="list-style-type: none"> <li>1. Cost estimates</li> <li>2. Basis of estimates</li> <li>3. Project documents updates</li> </ol>

Determine Budget	<ol style="list-style-type: none"> <li>1. Project management plan</li> <li>2. Project documents</li> <li>3. Business documents</li> <li>4. Agreements</li> <li>5. Enterprise environmental factors</li> <li>6. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Cost aggregation</li> <li>3. Data analysis</li> <li>4. Historical information review</li> <li>5. Funding limit reconciliation</li> <li>6. Financing</li> </ol>	<ol style="list-style-type: none"> <li>1. Cost baseline</li> <li>2. Project funding requirements</li> <li>3. Project documents updates</li> </ol>
Plan Quality Management	<ol style="list-style-type: none"> <li>1. Project charter</li> <li>2. Project management plan</li> <li>3. Project documents</li> <li>4. Enterprise environmental factors</li> <li>5. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Data gathering</li> <li>3. Data analysis</li> <li>4. Decision making</li> <li>5. Data representation</li> <li>6. Test and inspection planning</li> <li>7. Meetings</li> </ol>	<ol style="list-style-type: none"> <li>1. Quality management plan</li> <li>2. Quality metrics</li> <li>3. Project management plan updates</li> <li>4. Project documents updates</li> </ol>
Plan Resource Management	<ol style="list-style-type: none"> <li>1. Project charter</li> <li>2. Project management plan</li> <li>3. Enterprise environmental factors</li> <li>4. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Data representation</li> <li>3. Organizational theory</li> <li>4. Meetings</li> </ol>	<ol style="list-style-type: none"> <li>1. Resource management plan</li> <li>2. Team charter</li> <li>3. Project documents updates</li> </ol>
Estimate Activity Resources	<ol style="list-style-type: none"> <li>1. Project management plan</li> <li>2. Project documents</li> <li>3. Enterprise environmental factors</li> <li>4. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Analogous estimating</li> <li>3. Parametric estimating</li> <li>4. Bottom-up estimating</li> <li>5. Data analysis</li> <li>6. Project management information system</li> <li>7. Meetings</li> </ol>	<ol style="list-style-type: none"> <li>1. Resource requirements</li> <li>2. Basis of estimates</li> <li>3. Resource breakdown structure</li> <li>4. Project documents updates</li> </ol>

Plan Communications Management	<ol style="list-style-type: none"> <li>1. Project charter</li> <li>2. Project management plan</li> <li>3. Project documents</li> <li>4. Enterprise environmental factors</li> <li>5. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Communication requirements analysis</li> <li>3. Communication technology</li> <li>4. Communication models</li> <li>5. Communication methods</li> <li>6. Interpersonal and team skills</li> <li>7. Data representation</li> <li>8. Meetings</li> </ol>	<ol style="list-style-type: none"> <li>1. Communications management plan</li> <li>2. Project management plan updates</li> <li>3. Project documents updates</li> </ol>
Plan Risk Management	<ol style="list-style-type: none"> <li>1. Project charter</li> <li>2. Project management plan</li> <li>3. Project documents</li> <li>4. Enterprise environmental factors</li> <li>5. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Data analysis</li> <li>3. Meetings</li> </ol>	<ol style="list-style-type: none"> <li>1. Risk management plan</li> </ol>
Identify Risks	<ol style="list-style-type: none"> <li>1. Project management plan</li> <li>2. Project documents</li> <li>3. Agreements</li> <li>4. Procurement documentation</li> <li>5. Enterprise environmental factors</li> <li>6. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Data gathering</li> <li>3. Data analysis</li> <li>4. Interpersonal and team skills</li> <li>5. Prompt lists</li> <li>6. Meetings</li> </ol>	<ol style="list-style-type: none"> <li>1. Risk register</li> <li>2. Risk report</li> <li>3. Project documents updates</li> </ol>
Perform Qualitative Risk Analysis	<ol style="list-style-type: none"> <li>1. Project management plan</li> <li>2. Project documents</li> <li>3. Enterprise environmental factors</li> <li>4. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Data gathering</li> <li>3. Data analysis</li> <li>4. Interpersonal and team skills</li> <li>5. Risk categorization</li> <li>6. Data representation</li> <li>7. Meetings</li> </ol>	<ol style="list-style-type: none"> <li>1. Project documents updates</li> </ol>

Perform Quantitative Risk Analysis	<ol style="list-style-type: none"> <li>1. Project management plan</li> <li>2. Project documents</li> <li>3. Enterprise environmental factors</li> <li>4. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Data gathering</li> <li>3. Interpersonal and team skills</li> <li>4. Representations of uncertainty</li> <li>5. Data analysis</li> </ol>	<ol style="list-style-type: none"> <li>1. Project documents updates</li> </ol>
Plan Risk Responses	<ol style="list-style-type: none"> <li>1. Project management plan</li> <li>2. Project documents</li> <li>3. Enterprise environmental factors</li> <li>4. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Data gathering</li> <li>3. Interpersonal and team skills</li> <li>4. Strategies for threats</li> <li>5. Strategies for opportunities</li> <li>6. Contingent response strategies</li> <li>7. Strategies for overall project risk</li> <li>8. Data analysis</li> <li>9. Decision making</li> </ol>	<ol style="list-style-type: none"> <li>1. Change requests</li> <li>2. Project management plan updates</li> <li>3. Project documents updates</li> </ol>
Plan Procurement Management	<ol style="list-style-type: none"> <li>1. Project charter</li> <li>2. Business documents</li> <li>3. Project management plan</li> <li>4. Project documents</li> <li>5. Enterprise environmental factors</li> <li>6. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Data gathering</li> <li>3. Data analysis</li> <li>4. Source selection analysis</li> <li>5. Meetings</li> </ol>	<ol style="list-style-type: none"> <li>1. Procurement management plan</li> <li>2. Procurement strategy</li> <li>3. Bid documents</li> <li>4. Procurement statement of work</li> <li>5. Source selection criteria</li> <li>6. Make-or-buy decisions</li> <li>7. Independent cost estimates</li> <li>8. Change requests</li> <li>9. Project documents updates</li> <li>10. Organizational process assets updates</li> </ol>

Plan Stakeholder Engagement	<ol style="list-style-type: none"> <li>1. Project charter</li> <li>2. Business documents</li> <li>3. Project management plan</li> <li>4. Project documents</li> <li>5. Agreements</li> <li>6. Enterprise environmental factors</li> <li>7. Organizational process assets</li> </ol>	<ol style="list-style-type: none"> <li>1. Expert judgment</li> <li>2. Data gathering</li> <li>3. Data analysis</li> <li>4. Data representation</li> <li>5. Meetings</li> </ol>	<ol style="list-style-type: none"> <li>1. Stakeholder register</li> <li>2. Change requests</li> <li>3. Project management plan updates</li> <li>4. Project documents updates</li> </ol>
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