

Planning Process Group

Process	Inputs	Tools & Techniques	Outputs
Develop Project Management Plan	<ol style="list-style-type: none">1. Project charter2. Outputs from other processes3. Enterprise environmental factors4. Organizational process assets	<ol style="list-style-type: none">1. Expert judgment2. Data gathering<ul style="list-style-type: none">• Brainstorming• Checklists• Focus groups• Interviews3. Interpersonal and team skills<ul style="list-style-type: none">• Conflict management• Facilitation• Meeting management4. Meetings	<ol style="list-style-type: none">1. Project management plan
Plan Scope Management	<ol style="list-style-type: none">1. Project charter2. Project management plan3. Enterprise environmental factors4. Organizational process assets	<ol style="list-style-type: none">1. Expert judgment2. Data analysis3. Meetings	<ol style="list-style-type: none">1. Scope management plan2. Requirements management plan
Collect Requirements	<ol style="list-style-type: none">1. Project charter2. Project management plan3. Project documents4. Business documents5. Agreements6. Enterprise environmental factors7. Organizational process assets	<ol style="list-style-type: none">1. Expert judgment2. Data gathering3. Data analysis4. Decision making5. Data representation6. Interpersonal and team skills7. Context diagrams8. Prototypes	<ol style="list-style-type: none">1. Requirements documentation2. Requirements traceability matrix

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

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

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

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

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

Plan Stakeholder Engagement	<ol style="list-style-type: none"> 1. Project charter 2. Project management plan 3. Project documents 4. Agreements 5. Enterprise environmental factors 6. Organizational process assets 	<ol style="list-style-type: none"> 1. Expert judgment 2. Data gathering 3. Data analysis 4. Decision making 5. Data representation 6. Meetings 	<ol style="list-style-type: none"> 1. Stakeholder engagement plan
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