Project Management Body Of Knowledge PMBOK
# The 9 Knowledge Areas of PM

<table>
<thead>
<tr>
<th>Integration management</th>
<th>Scope management</th>
<th>Time management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost management</td>
<td>Quality management</td>
<td>Human Resource management</td>
</tr>
<tr>
<td>Communications management</td>
<td>Risk management</td>
<td>Procurement management</td>
</tr>
</tbody>
</table>
Project Integration Management

Definition:
Includes the processes and activities needed to identify, define, combine, unify and coordinate the various processes and project management activities within the project management process groups.
Processes

1. Develop Project Charter
2. Develop Project Management Plan
3. Direct and manage Project Execution
4. Monitor and Control Project Work
5. Perform Integrated Change Control
6. Close Project or Phase
Definition:
Includes all the processes required to ensure that the project includes all the work required, and only the work required, to complete the project successfully.
1. Collect requirements
2. Define scope
3. Create work breakdown structure
4. Verify scope
5. Control scope
Definition:
Includes the processes required to manage timely completion of the project.
 Processes

1. Define activities
2. Sequence activities
3. Estimate activity resources
4. Estimate activity duration
5. Develop schedule
6. Control schedule
Project Cost Management

Definition:
The processes involved in estimating, budgeting, and controlling costs so that the project can be completed within the approved budget.
Processes

1. Estimate costs
2. Determine budget
3. Control cost
Definition:
The processes and activities of the performing organization that determine quality policies, objectives, and responsibilities so that the project will satisfy the needs for which it was undertaken.
Processes

1. Plan Quality
2. Perform Quality Assurance
3. Perform Quality Control
Definition:

Project Communications Management includes the processes to ensure timely and appropriate generation, collection, distribution, storage, retrieval, and ultimate disposition of project stakeholders. Project managers spend the majority of their time communicating with team members and other stakeholders.
1. Identify Stakeholders
2. Plan Communications
3. Distribute Information
4. Manage Stakeholder Expectations
5. Report Performance
Definition:
The processes that organize, manage, and lead the project team. Early involvement and participation of team members adds their expertise during the planning process and strengthens their commitment to the project.
Processes

1. Develop human resource plan
2. Acquire project team
3. Develop project team
4. Manage project team
Definition:
The processes of conducting risk management planning, identification, analysis, response planning, and monitoring and control on a project. The objectives of Project Risk Management are to increase the probability and impact of positive events, and decrease the probability and impact of negative events in the project.
1. Plan risk management
2. Identify risks
3. Perform qualitative risk analysis
4. Perform quantities risk analysis
5. Plan risk responses
6. Monitor and control risks
Definition:
The processes necessary to purchase or acquire products, services, or results needed from outside the project team. The organization can be either the buyer or seller of the products, services, or results of a project.
1. Plan procurements
2. Conduct procurements
3. Administer procurements
4. Close procurements
Management activities of ICT project life cycle
The 5 PM Process Groups

Project management processes can be divided into five groups, each containing one or more processes.

<table>
<thead>
<tr>
<th>Process group</th>
<th>Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initiating processes</td>
<td>Approval of the project or project phase</td>
</tr>
<tr>
<td>Planning processes</td>
<td>Definition of the goals and selection of the procedure for achieving them</td>
</tr>
<tr>
<td>Executing processes</td>
<td>Coordination of those involved and the physical resources for executing the plan</td>
</tr>
<tr>
<td>Controlling processes</td>
<td>Securing the project goals by recording and establishing the project progress, identifying planning deviations and taking corrective action</td>
</tr>
<tr>
<td>Closing processes</td>
<td>Formal acceptance of the project or project phase</td>
</tr>
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</table>
Linking of the process groups

- Initiating Processes
- Planning Processes
- Executing Processes
- Monitoring & Controlling Processes
- Closing Processes
Processes Interactions

Initiation
Planning
Execution
Monitoring and Evaluating
Closing

Level of processes interactions

Time
PM processes
linked to PM knowledge areas
## Mapping the Processes

<table>
<thead>
<tr>
<th>PM Knowledge Area</th>
<th>Process Group</th>
<th>Initiating</th>
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<th>Executing</th>
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<th>Closing</th>
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<tbody>
<tr>
<td>4. Integration</td>
<td>4.1 Develop Project Charter</td>
<td>4.3 Develop Project Management Plan</td>
<td>4.4 Direct and Manage Project Execution</td>
<td>4.5 Monitor and Control Project Work</td>
<td>4.7 Close Project or Phase</td>
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<tr>
<td>5. Scope</td>
<td>5.1 Collect Requirements</td>
<td>5.2 Define Scope</td>
<td>5.3 Create WBS</td>
<td>5.4 Verify Scope</td>
<td>5.5 Control Scope</td>
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<tr>
<td>6. Time</td>
<td>6.1 Define Activities</td>
<td>6.2 Sequence Activities</td>
<td>6.3 Estimate Activity Resource</td>
<td>6.4 Estimate Activity Duration</td>
<td>6.5 Develop Schedule</td>
<td>6.6 Control Schedule</td>
</tr>
<tr>
<td>7. Cost</td>
<td>7.1 Estimate Cost</td>
<td>7.2 Determine Budget</td>
<td>7.3 Control Costs</td>
<td>7.4 Perform Integrated Change Control</td>
<td>7.5 Control Costs</td>
<td>7.6 Close Project or Phase</td>
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<tr>
<td>8. Quality</td>
<td></td>
<td>8.1 Plan Quality</td>
<td></td>
<td>8.2 Perform Quality Assurance</td>
<td></td>
<td>8.3 Perform Quality Control</td>
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<tr>
<td>10. Communications</td>
<td></td>
<td>10.1 Identify stakeholders 10.2 Plan Communications</td>
<td></td>
<td>10.3 Distribute Information 10.4 Manage Stakeholders expectations</td>
<td></td>
<td>10.5 Report Performance</td>
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### PM Knowledge Area

#### 13. Risk

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<tbody>
<tr>
<td>11.1 Plan Risk Management</td>
<td>11.2 Identify Risks</td>
<td>11.3 Perform Qualitative Risk Analysis</td>
<td>11.4 Perform Quantitative Risk Analysis</td>
<td>11.5 Plan Risk Response</td>
<td>11.6 Monitor and Control Risk</td>
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#### 14. Procurement

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<tbody>
<tr>
<td>12.1 Plan Procurement</td>
<td>12.2 Conduct Procurement</td>
<td>12.3 Administer procurement</td>
<td>12.4 Close Procurement</td>
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<td></td>
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