

Project Management Process Groups Project Management Knowledge Areas	Initiating Process Group	Planning Process Group	Executing Process Group	Monitoring & Controlling Process Group	Closing Process Group
4. Integration Management	4.1 Develop Project Charter →(13.1)	4.2 Develop Project Management Plan →(5.1, 10.1, 13.2)	4.3 Direct and Manage Project Work →(8.2, 9.2, 10.2, 12.2, 13.3)	4.4 Monitor and Control Project Work →(4.5) 4.5 Perform Integrated Change Control	4.6 Close Project or Phase →(12.4)
5. Scope Management		5.1 Plan Scope Management →(5.2) 5.2 Collect Requirements →(5.3, 8.1) 5.3 Define scope →(5.4) 5.4 Create WBS →(6.1, 11.1)		5.5 Validate Scope 5.6 Control Scope →(4.4)	
6. Time Management		6.1 Plan Schedule Management →(6.2) 6.2 Define Activities →(6.3) 6.3 Sequence Activities →(6.4) 6.4 Estimate Activity Resources →(9.1) 6.5 Estimate activity Durations →(6.6) 6.6 Develop Schedule →(7.1, 12.1)		6.7 Control Schedule →(4.4)	
7. Cost Management		7.1 Plan Cost Management →(7.2) 7.2 Estimate Costs →(7.3) 7.3 Determine Budget		7.4 Control Costs →(4.4)	
8. Quality Management		8.1 Plan Quality Management	8.2 Perform Quality Assurance	8.3 Control Quality →(4.4, 5.5)	
9. Human Resource Management		9.1 Plan Human Resource Management →(6.5)	9.2 Acquire Project Team →(9.3) 9.3 Develop Project Team →(9.4) 9.4 Manage Project Team		
10. Communication Management		10.1 Plan Communications Management	10.2 Manage Communications	10.3 Control Communications →(4.4)	
11. Risk Management		11.1 Plan Risk Management →(11.2) 11.2 Identify Risks →(6.4, 11.3, 11.4, 11.5) 11.3 Perform Qualitative Risk Analysis 11.4 Perform Quantitative Risk Analysis 11.5 Plan Risk Responses		11.6 Control Risks →(4.4)	
12. Procurement Management		12.1 Plan Procurements Management	12.2 Conduct Procurements	12.3 Control Procurements →(4.4)	12.4 Close Procurements
13. Stakeholder Management	13.1 Identify Stakeholders	13.2 Plan Stakeholder Management →(5.2)	13.3 Manage Stakeholder Engagement	13.4 Control Management Engagement →(4.4)	