

Table 3-1. Project Management Process Group and Knowledge Area Mapping

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