

Project Management Processes, Techniques, Tools and Training Matrix

		Project Identification	Pre-Project Work	Project Execution	Verify and Update Project Plan	Project/Phase Close
		Description	This is the process to create a plan of how the project will be managed	This is process to execute the plan	This is the process to validate and/or update the plan as changes happen	This is process to finalize activities and pass on project deliverables and knowledge to the next phase
		Initiation	Planning	Executing	Monitoring & Controlling	Closing
PM Knowledge Areas Scope Management 	Processes/Techniques		Document Scope Management Plan Internal Scoping Meeting External Scoping Meeting PM Role in Writing the Scope of Work		Scope Change Process Internal Scoping Meeting External Scoping Meeting PM Role in Writing the Scope of Work	
	Tools		Project Scope Statement Project Scoping Report Project Management Plan		Change Control Log	
	Training		PMD120, PMD300, ROW100, ROW101	PMD120, ROW100, ROW101	PMD120, PMD300, ROW100, ROW101	PMD120, PMD300, ROW100, ROW101
Schedule Management 	Processes/Techniques		Document Schedule Management Plan	Schedule Guide Processes	Schedule Guide Processes	
	Tools		Project Management Plan	Scheduling Software	Change Control Log	
	Processes/Techniques		Consultant Project Schedule Guide Matrix	Contract Time Determination Guidance	Consultant Project Schedule Guide Matrix	
	Tools		Schedule Guide Processes	Scheduling Software	Scheduling Software	
	Processes/Techniques		Schedule Quality Processes	Schedule Quality Processes	Schedule Quality Processes	
	Tools		How to Create a Useful Project Schedule	How to Create a Useful Project Schedule	How to Create a Useful Project Schedule	
	Training		PMD103, PMD108	PMD103, PMD104	PMD103, PMD104, PMD300	PMD300
Cost Management 	Processes/Techniques		Document Cost Management Plan	Estimate Development Process	Cost Change Process	
	Tools		Project Management Plan	Risk Based Cost Estimation Three Point Estimating	Change Control Log	
	Processes/Techniques			Invoice Processes	Invoice Processes	Invoice Processes
	Tools			PM Role in the Project Work Authorization Invoicing	PM Role in the Project Work Authorization Invoicing	PM Role in the Project Work Authorization Invoicing
	Processes/Techniques			Invoice Ledger for Transportation Projects	Invoice Ledger for Transportation Projects	Invoice Ledger for Transportation Projects
	Tools		Budget Review Process	Budget Review Process	Budget Review Process	Budget Review Process
	Training		Cost Estimation System	Cost Estimation System	Cost Estimation System	Cost Estimation System
	Training			PMD140, PMD141	PMD300	PMD300
Quality Management 	Processes/Techniques		Document Quality Management Plan	PM Role in QA/QC	PM Role in QA/QC	
	Tools		Project Management Plan	Review Comments Resolution	Review Comments Resolution	
	Processes/Techniques		Schedule Quality Processes		Schedule Quality Processes	
	Tools		Acumen Fuse		Acumen Fuse	
	Training		CTR616	CTR616	CTR616	
Resource Management 	Processes/Techniques		Document Resource Management Plan	Team Roles and Responsibilities	Team Roles and Responsibilities	
	Tools		Project Management Plan RACI Matrix	RACI Matrix PM Capacity Tool	RACI Matrix PM Capacity Tool	
	Training		PMD140, PMD300			
Communications Management 	Processes/Techniques		Document Communications Management Plan	Public Involvement Process	Project Communications Process	
	Tools		Project Management Plan	Public Involvement Assistance Environmental Handbook - Public Involvement Environmental Affairs - Public Involvement Toolkit	Communications Log Progress Reports Meeting Agenda and Notes	
	Training		ENV413, OPI100, PMD120, PMD108, PMD300, ROW100, ROW101	ENV413, OPI100, ROW100, ROW101	ENV413, OPI100, ROW100, ROW101	ROW100, ROW101
Risk Management 	Processes/Techniques		Document Risk Management Plan	Risk Management Process	Risk Management Process	Risk Management Process
	Tools		Project Management Plan	Risk Primer Risk and Issue Register Risk Workshop (Video)	Risk and Issue Register Risk Workshop (Video)	Risk and Issue Register
	Training		PMD108, PMD300, ROW100, ROW101	PMD151, ROW100, ROW101	PMD151, ROW100, ROW101	ROW100, ROW101
Procurement Management 	Processes/Techniques		Document Procurement Management Plan	Contract Management and Administration Processes	Supplemental Agreements (SA)	Work Authorization (WA) Closeout Processes
	Tools		Project Management Plan	Contract Management System	Indefinite Deliverable SA Review Checklist Specific Deliverable SA Review Checklist	WA Closeout Checklist Provider Evaluation System
	Processes/Techniques		Procurement Planning Processes			Provider Evaluation Process
	Tools		Provider Selection	Invoice Processes	Invoice Processes	PM Role with Performance Review and Compliance
	Processes/Techniques		Contract Development and Negotiation Processes Contract Management and Administration Processes			PM Role in the Project Work Authorization Invoicing
	Tools		PM Role in Writing the Scope of Work	PM Role in the Project Work Authorization Invoicing	PM Role in the Project Work Authorization Invoicing	
	Processes/Techniques		PM Role in Project Work Authorization Negotiations		PM Role in the Project Work Authorization Invoicing	
	Tools		Provider Evaluation Process	Provider Evaluation Process	Provider Evaluation Process	PM Role with Performance Review and Compliance
	Training		General Guidance on Managing CEI	General Guidance on Managing CEI	General Guidance on Managing CEI	
	Training		CTR104, CTR106, CTR620, CTR621, CTR622, PMD108	CTR104, CTR106, CTR621, CTR622	CTR104, CTR106, CTR621, CTR622	CTR104, CTR622
Stakeholder Management 	Processes/Techniques		Document Stakeholder Management Plan	Document Project Stakeholders	Document Project Stakeholders	
	Tools		Project Management Plan	Stakeholder Register	Stakeholder Register	
	Training		ENV413, OPI100, PMD108, PMD151, PMD300, ROW100, ROW101	ENV413, OPI100, ROW100, ROW101	ENV413, OPI100, ROW100, ROW101	PMD300, ROW100, ROW101
Project Integration 	Processes/Techniques		Document Project Management Plan	Project Kickoff Meeting	Project Status Meetings	Project Closeout Meeting
	Tools		Project Management Plan	Kickoff Meeting Checklist	Status Meeting Checklist	Project Closeout Meeting Checklist
	Processes/Techniques		Meeting Agenda and Notes	Meeting Agenda and Notes	Meeting Agenda and Notes	Meeting Agenda and Notes
	Tools		Document Program Management Plan	Project Documentation	Project Documentation	Project Documentation
	Processes/Techniques		Program Management Plan	Document Control System (ProjectWise)	Document Control System (ProjectWise)	Document Control System (ProjectWise)
	Tools		Issue Log	Issue Log	Issue Log	Issue Log
	Processes/Techniques		Lessons Learned Register	Lessons Learned Register	Lessons Learned Register	Lessons Learned Register
	Training		Project Documents Toolkit	Project Documents Toolkit	Project Documents Toolkit	Project Documents Toolkit
	Training		ENV413, PMD105, PMD120	ENV413, PMD105, PMD300	ENV413, PMD105, PMD300	ENV413, PMD105, PMD300

Note: Project Initiation is typically not the responsibility of the Project Manager. This process group includes identification of projects from various sources, programming and identification of funding.

PM Training Course Codes and Names		
PMD103: Transportation Scheduling Using P6		OPI100: Effective Public Involvement
PMD104: Transportation Scheduling Management Through Project Development		CTR104: Best Value Contract at TxDOT
PMD105: Project Management Discipline Workshop		CTR106: Negotiating TxDOT Contracts
PMD108: Construction Contract Time Determination for Transportation Projects Using P6		CTR616: Consultant Errors & Omissions Collections & Corrections
PMD120: Project Scope Management		CTR620: PEPS Consultant Selection
PMD140: Risk Based Construction Cost Estimating		CTR621: PEPS Contract Negotiations
PMD141: Three-Point Estimating (Time, Quantity, and Cost)		CTR622: PEPS Contract & Work Authorization Management
PMD151: Transportation Project Risk Management		ROW100: Identifying and Managing Utility Conflicts
PMD300: Transportation Project Management at TxDOT		ROW101: TxDOT Utility Coordination
		ENV413: TxDOT Environmental Overview for Engineering Staff