



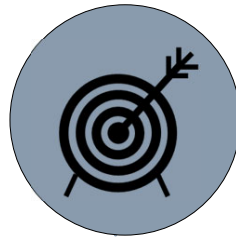
# TxDOT – Transportation Construction PM Learning Path

Suggested First Course

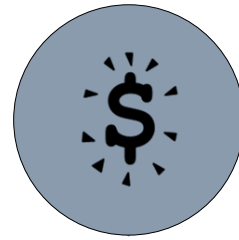
Instructor-Led Course (Black Border)

PeopleSoft eLearning (Red Border)

## Project Scope Management



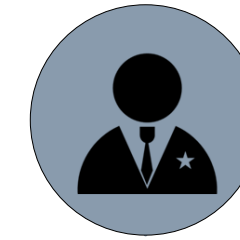
## Project Cost Management



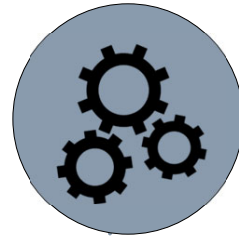
## Project Quality Management



## Project Stakeholder Management



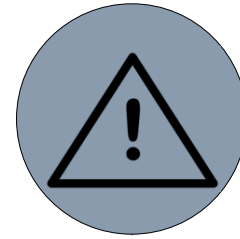
## Project Procurement Management



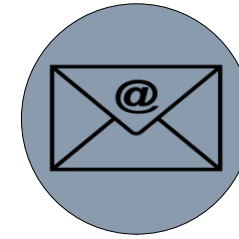
## Project Integration Management



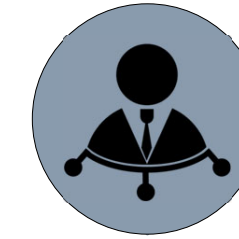
## Project Schedule Management



## Project Risk Management



## Project Communication Management



## Project Resource Management

**Essential Courses:** Fundamental courses for Project Managers seeking a general overview of a knowledge area

**Time Commitment:** These courses take approximately 19 days to complete

Spec Book  
CON814 2 hrs.

Project Scope Management  
PMD120 4 hrs.

Basic Construction Schedule Analysis  
CON511 16 hrs.

Construction Cost Estimating  
PMD142 5 hrs.

Project Management - Risk Assessment  
DEV417 24 hrs.

Construction Stage Gate Chklist  
CON816 1 hr.

Practical Supervision  
DEV115 20 hrs.

Effective Public Involvement  
EPI100 8 hrs.

SiteManager Materials Management  
CON503 2 hrs.

Construction Contract Admin  
CON118 4 hrs.

Stormwater Erosion & Sediment Control  
ENV301 8 hrs.

Time Impact Analysis  
CON512 16 hrs.

Completing Stormwater Inspection Checklist  
CON817 1 hr.

Dispute Resolution  
CON209 12 hrs.

Site Mgr Contract Admin  
CON501 3 hrs.

404 Compliance During Construction  
ENV457 1 hr.

Construction Schedule Review for Transportation Projects Using P6  
PMD109 8 hrs.

Consultant Errors & Omissions  
CTR616 16 hrs.

**Supporting Courses:** Supplemental courses that provide project managers with a deeper understanding of a knowledge area

Local Gov. Project Procedures Qualification for TxDOT  
LGP101 12 hrs.

Transportation Scheduling Using P6  
PMD103 12 hrs.

Nuclear Gauge Transportation Overview  
CON702 1 hr.

QA: Introduction to Quality Assurance Programs  
TCC281 1 hr.

Project Management – Resource Management  
DEV418 24 hrs.

Texas Transportation Contracting  
CTR111 12 hrs.

Change Orders, Claims, and Dispute Resolutions  
TCC118 1 hr.

Construction Contract Time Determination for Transportation Projects Using P6  
PMD108 4 hrs.

Basic Nuclear Safety  
CON703 1 hr.

QA: Quality Control: Using Control Charts  
TCC318 1.5 hrs.

Ethics in Contracting  
CTR114 4 hrs.

Project Management – Scheduling  
DEV419 24 hrs.

Understanding Materials Testing for Inspectors  
TCC214 5 hrs.

Managing CE&I Consultant Contracts  
CTR623 16 hrs.

CPM Scheduling  
TCC217 2 hrs.

Concrete Series: QCQA for Concrete Pavements  
TCC162 1 hr.

CPM Scheduling  
TCC223 2 hrs.



# Additional Courses

Computer-Based Course  
(Red Border)

**Supporting Courses:** Supplemental courses that provide project managers with a deeper understanding of a knowledge area



# TxDOT – Transportation Construction PM Learning Path

## Overview

This PM Learning Path provides a suggested sequence of courses geared towards skill enhancement for Transportation Construction Project Managers.

Within the Learning Path, the courses are grouped by Knowledge Areas. A Knowledge Area is an identified area of project management defined by its knowledge requirements and described in terms of its component processes, practices, inputs, outputs, tools, and techniques. Knowledge Areas cover what a project manager needs to know in order to successfully manage a project. These Knowledge Areas are used in most projects most of the time. The Project Management Institute (PMI) established industry standard terminology and guidelines known as, *A Guide to the Project Management Body of Knowledge* (PMBOK Guide 6<sup>th</sup> Edition).

Within the Learning Path, the courses identified as ‘Essential’ provide project managers with general overview of the Knowledge Area. Project managers who want to develop a more in depth understanding of a particular Knowledge Area may choose to enroll in the identified ‘Supporting’ courses

## Knowledge Areas



**Project Integration Management:** Effective integration of the processes required to accomplish project objectives. This includes developing a Project Management Plan and a project charter.



**Project Scope Management:** Defines and controls what is and is not included in the project. This includes the creation of a Work Breakdown Structure.



**Project Time Management:** Examines processes required for the timely completion of the project. This includes the development and control of the project schedule.



**Project Cost Management:** Planning, estimating, budgeting and controlling costs to ensure the project can be completed within the approved budget.



**Project Risk Management:** Increasing the probability and impact of positive events and decreasing negative events. These are updated throughout the project. This includes qualitative and quantitative risk analysis.



**Project Quality Management:** Processes that identify which quality standards are relevant to the project objectives to ensure that the project achieves its goals. This includes quality planning assurance and control.



**Project Communications Management:** Communicate direction and decisions on all project-related issues. This includes performance tracking, issue escalation and managing internal and external stakeholders.



**Project Stakeholder Management:** Involves analyzing stakeholder expectations and developing management strategies for effectively engaging stakeholders during project decisions and execution.



**Project Resource Management:** Processes that involve resource planning and ensuring that all resources are used efficiently. This includes forming, developing and managing the project team.



**Project Procurement Management:** Processes to purchase/acquire the products, services or results needed to perform the project work. This includes contract management and change control.

## Contact Us

CST Phone: 512-416-2575 (Construction Support Main Line)

CST Email: [CST-ConstructionSupport@txdot.gov](mailto:CST-ConstructionSupport@txdot.gov)

PPM Phone: 512-416-3333 (Help Desk)

PPM Email: [PPM\\_Training@txdot.gov](mailto:PPM_Training@txdot.gov)