

# ONLINE TRAINING ON YOUR TIME

TC3 offers more than 170 web-based training courses, over 90% of which are recommended for professional development hours (PDHs). TC3 training accounts for 80% of national-level training needed by the technical workforce. TC3 is currently offering the courses listed below, but is always considering new training for development.

## Construction

COURSE TITLE	PDHS
3D Engineered Models for Construction Series: Overview (.5 hours)	*
3D Engineered Models for Construction Series: 3D Engineered Models in Highway Design	2
3D Engineered Models for Construction Series: Applications of 3D Engineered Models in Highway Construction & Quality Assurance	2
3D Engineered Models for Construction Series: Introduction to 3D Engineered Models for Highway Transportation	2
3D Engineered Models for Construction Series: Surveying and 3D Engineered Models	2
Basic Construction Surveying	3
Bolted Connections	4
Change Orders, Claims, and Dispute Resolutions	1
Clean Water Act Compliance During Construction (Section 404)	1.5
Construction Inspection of Structures Series: Substructures	3
Construction Inspection of Structures Series: Subsurface	4.5
Construction Inspection of Structures Series: Superstructures	6
Construction of Mechanically Stabilized Earth (MSE) Walls	5
Construction of PCC Pavements Series	6
Construction of PCC Pavements Series: Curing, Sawing, and Joint Sealing	1
Construction of PCC Pavements Series: Paving Process	2.5
Construction of PCC Pavements Series: Production	2.5
Construction Stormwater Field Guide Training	4
Critical Path Method (CPM) Scheduling	2
Drilled Shaft Inspector Tutorial	4
Earthwork Series	13
Earthwork Series: Earth Materials as Engineering Materials	1.5
Earthwork Series: Excavation	3
Earthwork Series: Fill Placement	4
Earthwork Series: Grades and Grading	3
Earthwork Series: Site Preparation	1.5
Environmental Predecessor Series: Air Quality	1
Environmental Predecessor Series: Archaeology	1
Environmental Predecessor Series: Community Impact Assessment	1
Environmental Predecessor Series: Noise	1
Environmental Triggers Series: Air Quality Impacts	.5
Environmental Triggers Series: Archaeological	.5
Environmental Triggers Series: Biological Resources	.5
Environmental Triggers Series: Community Impacts	1
Environmental Triggers Series: Hazardous Materials	1
Environmental Triggers Series: Noise Assessment	.5
Environmental Triggers Series: Water Resources	1

\* This course is not recommended for PDHs.

## Construction, cont.

COURSE TITLE	PDHS
Erosion and Sediment Control	3.5
Field Environmental Emergency Compliance	1
GPS Technology	1
Guardrail Series: Guardrail Basics	2
Guardrail Series: Installation and Inspection of New Guardrails	2.5
Guardrail Series: Maintenance and Repair	1.5
Hazardous Materials Management Series: Completing the Initial Site Assessment (ISA) Report Scoping Process	1
Hazardous Materials Management Series: Conducting Field Interviews	1
Hazardous Materials Management Series: Defining Site Assessments	0.5
Hazardous Materials Management Series: Introduction to the Initial Site Assessment (ISA) Process	1
Hazardous Materials Management Series: Land Use Concerns	2
Hazardous Materials Management Series: Preparing NEPA Documentation	1
Hazardous Materials Management Series: Preparing Recommendation and Action Plans	1
Hazardous Materials Management Series: Regulatory and Legal Issues	1
Hazardous Materials Management Series: Using Regulatory Agency Databases	1
HMA Paving Field Inspection	4.5
Improving the Daily Diary (1 hour)	*
Inspection of Concrete	3
Inspector Training for Cold In-place Recycling (CIR)	4
Intelligent Compaction	2
Introduction to E-construction	2
Managing Critical Path Method (CPM) Schedules	3
NEPA Indirect and Cumulative Impact Analysis	2
NEPA Overview Series: Determining Transportation Needs	1
NEPA Overview Series: Evaluating Sub-regional and Local Transportation Needs	1
NEPA Overview Series: Final Stages and Re-Evaluations	1
NEPA Overview Series: Launching a Project	1
NEPA Overview Series: Preparing and Reviewing NEPA Documents	1
NEPA Overview Series: Refining Alternatives	1
Pile Driving Inspector Tutorial	4
Pipe Installation, Inspection, and Quality	7



## Construction, cont.

COURSE TITLE	PDHS
Plan Reading	8
Plan Reading: Bridge Plans	1.5
Plan Reading: County Plans	1
Plan Reading: Culvert Plans	1.5
Plan Reading: Erosion and Sediment Control Plans	0.5
Plan Reading: Grading Plans	1.5
Plan Reading: Highway Plan Reading Basics (1 hour)	*
Plan Reading: Right-of-way Plans	1
Plan Reading: Traffic Control Plans	0.5
Portland Cement Concrete Paving Inspection	5
Revegetation During Construction	1
Rock Slope Mitigation	2.5
Roller Compacted Concrete Pavements	6
Warm Mix Asphalt	3



## Employee Development

COURSE TITLE	PDHS
Ethics Awareness for the Transportation Industry	1
Ethics for Engineers	3
Instructor Preparation	3
Math Basics	*
Math Basics Series for Highway Technicians: Introductory Math Concepts	3.5
Math Basics Series for Highway Technicians: Introductory Math Concepts, Area	.25
Math Basics Series for Highway Technicians: Introductory Math Concepts, Arithmetic	.5
Math Basics Series for Highway Technicians: Introductory Math Concepts, Decimals	.5
Math Basics Series for Highway Technicians: Introductory Math Concepts, Fractions	.5
Math Basics Series for Highway Technicians: Introductory Math Concepts, Mean	.25
Math Basics Series for Highway Technicians: Introductory Math Concepts, Order of Operations	.25
Math Basics Series for Highway Technicians: Introductory Math Concepts, Percentages	.25
Math Basics Series for Highway Technicians: Introductory Math Concepts, Ratios	.25
Math Basics Series for Highway Technicians: Introductory Math Concepts, Slope	.25
Math Basics Series for Highway Technicians: Introductory Math Concepts, Unit Conversions	.25
Math Basics Series for Highway Technicians: Introductory Math Concepts, Volume	.25
Transportation Asset Management Overview	2



## Maintenance

COURSE TITLE	PDHS
Benchmarking and Best Practices for State Equipment Fleet Management	3
Best Practices for High Friction Surfaces	3
Maintenance Stormwater Field Guide Training	3
Maintenance Training Series	12
Maintenance Training Series Preview (.5 hours)	*
Maintenance Training Series: Base and Subbase Stabilization and Repair	1
Maintenance Training Series: Basics of Work Zone Traffic Control	1
Maintenance Training Series: Cultural and Historic Preservation	1
Maintenance Training Series: Outdoor Advertising and Litter Control	1
Maintenance Training Series: Pavement Preservation Program	1
Maintenance Training Series: Roadside Vegetation Management	1
Maintenance Training Series: Roadway Drainage	1
Maintenance Training Series: Shaping and Shoulders	1.5
Maintenance Training Series: Thin HMA Overlays and Leveling	1.5
Maintenance Training Series: Underground Storage Tanks	1
Maintenance Training Series: Weather-related Operations	1
Pavement Preservation Concepts	1
PCC Pavement Preservation Series	14
PCC Pavement Preservation Series: Concrete Overlays	2
PCC Pavement Preservation Series: Concrete Pavement Evaluation	2
PCC Pavement Preservation Series: Diamond Grinding and Grooving	1
PCC Pavement Preservation Series: Full-depth Repairs	2
PCC Pavement Preservation Series: Joint Resealing and Crack Sealing	1
PCC Pavement Preservation Series: Load Transfer Restoration	1
PCC Pavement Preservation Series: Partial-depth Repairs	1
PCC Pavement Preservation Series: Preventive Maintenance and Pavement Preservation Concepts	1
PCC Pavement Preservation Series: Retrofitted Edge Drains	1
PCC Pavement Preservation Series: Slab Stabilization and Slab Jacking	1
PCC Pavement Preservation Series: Strategy Selection	1
Preventative Maintenance Concepts for State Fleet Operations	3.5
Recognizing Roadside Weeds (1 hour)	*
Trenchless Technology	4.5

\* This course is not recommended for PDHs.



## Materials

COURSE TITLE	PDHS
AASHTO Designation: T 308	2
AASHTO Designation: T 312	2
Advanced Self-consolidating Concrete	1.5
Aggregate Sampling Basics (1 hour)	*
Basic Materials for Highway and Structure Construction	3
Concrete Pavements	2
Concrete Series	12
Concrete Series: Basics of Cement Hydration	1
Concrete Series: Construction of Concrete Pavements	1
Concrete Series: Design of Pavement	1
Concrete Series: Early Age Cracking	1
Concrete Series: Fresh Properties	1
Concrete Series: Fundamentals of Materials Used for Concrete Pavements	2
Concrete Series: Hardened Concrete Properties – Durability	1
Concrete Series: Incompatibility in Concrete Pavement Systems	1
Concrete Series: Mix Design Principles	1
Concrete Series: QCQA for Concrete Pavements	1
Concrete Series: Troubleshooting for Concrete Pavements	1
Corrosion of Structures	2
Fundamentals of Geosynthetic Materials	4
Materials Testing: Reducing Aggregate Samples (1 hour)	*
Superpave for Construction	3.5
Superpave Mix Design Process and Analysis	2
T 209 Standard Method of Test for Theoretical Maximum Specific Gravity (Gmm) and Density of Hot-mix Asphalt (HMA)	2
T 283 Standard Method of Test for Resistance of Compacted Asphalt Mixtures to Moisture-induced Damage	2
Testing Self-consolidating Concrete	1
Understanding Materials Testing for Inspectors	5



## Pavement Preservation

COURSE TITLE	PDHS
Chip Seal Best Practices	3
Flexible Pavement Preservation Treatment Series	14
Flexible Pavement Preservation Treatment Series Preview (.5 hours)	*
Flexible Pavement Preservation Treatment Series: Chip Seals	1.5
Flexible Pavement Preservation Treatment Series: Crack Sealing and Fillings	1.25
Flexible Pavement Preservation Treatment Series: Fog Seals	1
Flexible Pavement Preservation Treatment Series: Introduction to Pavement Preservation	1
Flexible Pavement Preservation Treatment Series: Localized Pavement Repairs	1.25
Flexible Pavement Preservation Treatment Series: Materials	2
Flexible Pavement Preservation Treatment Series: Microsurfacing	1
Flexible Pavement Preservation Treatment Series: Selecting the Right Treatment	0.5
Flexible Pavement Preservation Treatment Series: Slurry Seals	1.25
Flexible Pavement Preservation Treatment Series: Thin Functional HMA Overlay	2
Flexible Pavement Preservation Treatment Series: Ultra Thin HMA Bonded Wearing	1
Full Depth Reclamation	4.5
Hot In-place Recycling	2.5



## Traffic and Safety

COURSE TITLE	PDHS
Bloodborne Pathogens	1
Bridge Construction Inspection Safety	1
CDL Air Brakes (1.5 hours)	*
CDL General Knowledge (3 hours)	*
CDL Pre-trip Inspection (2 hours)	*
Flagger Training (1 hour)	*
High Visibility Garments	1
Job Hazard Analysis	2
Maintenance of Drainage Features for Safety	1
Maintenance of Traffic for Supervisors	5
Maintenance of Traffic for Technicians (5 hours)	*
PPE (Personal Protective Equipment)	1
Safe Use of Basic Carpentry Tools (3 hours)	*
Safe Use of Hand and Power Operated Tools (1 hour)	*
Safety Orientation	2

\* This course is not recommended for PDHs.

# COMING SOON

TC3 is constantly developing new and updated courses and content. As workforce needs arise, the TC3 is devoted to providing a quality, convenient, and accurate training experience. Below are courses that are currently in production and are set to launch soon!



## Construction

COURSE TITLE	PDHS
Advanced Contract Management Skills	TBD
Base and Subbase Construction and Repair	TBD
Flexibility in Design	TBD
Introduction to Mapping/GIS 101 and Database Management	TBD
Micropile (Small Diameter Piling)	TBD
Pavement Markings	TBD
Pipe Series: Design	TBD
Pipe Series: Installation and Inspection	TBD
Pipe Series: Maintenance	TBD
Pipe Series: Production/QA	TBD
Shop Drawings	TBD
Quality Assurance	TBD



## Pavement Preservation

COURSE TITLE	PDHS
Emulsion Based Pavement Preservation Treatments	TBD



## Employee Development

COURSE TITLE	PDHS
Math Basics Series for Highway Technicians: Construction Inspection	TBD
Math Basics Series for Highway Technicians: Maintenance Technician	TBD
Math Basics Series for Highway Technicians: Materials Technicians	TBD



## Maintenance

COURSE TITLE	PDHS
Bridge Maintenance (Cleaning, Flushing, and Sealing of Bridge Elements)	TBD
Bridge Preservation	TBD
Improving Pavement Foundations	TBD
Maintenance and Tort Liability	TBD



## Materials

COURSE TITLE	PDHS
Compaction Technician	TBD
Fundamentals of Precast and Ready Mix Concrete Mix Design	TBD
Plant Production of Asphalt Mix	TBD
Quality and Durability Issues Related to Cold Weather Concreting	TBD
Quality Management Systems for Construction Materials Testing Laboratories	TBD
Sampling and Testing Soils	TBD
Troubleshooting Aggregate Problems	TBD



## Traffic and Safety

COURSE TITLE	PDHS
Roadside Safety Appurtenances and Strategies	TBD
Road Safety Audits	TBD

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