

2023 PTI Project of the Year: Sixth Street Viaduct Replacement Project Los Angeles, CA, USA Submitted By: Cowbell Creative, LLC



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BOARD OF DIRECTORS



GENERAL REFERENCES

Post-Tensioning Manual, Seventh Edition





The seventh edition of this manual contains four new chapters and one new appendix. New topics include repair, rehabiliation and strengthening structures, building information modeling, anchorage zone design, sustainability, and barrier cable tests.

This manual is intended for students, educators, contractors, inspectors, building officials, owners, end users, practicing engineers, and architects. It provides basic guidance and the essential principles for various uses of post-tensioning applications.

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PTI Member: \$105.00

PTI Non-Member: \$150.00



Protected PDF Pricing

PTI Member: \$95.00

Additional Information



Language: English



www.post-tensioning.org/publications



BUILDINGS & PARKING

Restraint Cracks and their Mitigation in Unbonded Post-Tensioned Building Structures

DC20.2-22

	Restraint Cracks and Their Mitigation in Unbonded Post-Tensioned Building Structures	2-22	of the various aspects of post-tensioned concrete It provides useful recom professionals, contractor better understand the ca restraint cracks; mitigatic evaluation of restraint ef computation using vario consideration of restraint element method.	a comp restrai buildin menda s, archi iuses a on strat fects; c us met t effect	orenensive overview nt to shortening in ng construction. tions to licensed design itects and owners to nd categorization of tegies, detailing, and rack repair; shortening thods; and ts using the finite	
	Printed Document Pricing		Protected PDF Pricing		Additional Information	
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Ş	PTI Non-Member: \$75.00	\$	PTI Non-Member: \$65.00		Language: English	

Guide for Design of Post-Tensioned Buildings

DC20.9-11





BUILDINGS & PARKING: CONTINUED

Design of Post-Tensioned Slabs Using Unbonded Tendons

DC20.8-04



Design, Construction and Maintenance of CIP Post-Tensioned Concrete Parking Structures







BUILDINGS & PARKING: CONTINUED

Design Fundamentals of Post-Tensioned Concrete Floors





Specification for Unbonded Single Strand Tendons







BUILDINGS & PARKING: CONTINUED

Field Procedures Manual for Unbonded Single Strand Tendons

M10.3-16



Specification for Seven-Wire Prestressing Strand for Barrier Cable Applications







WORLD OF CONCRETE

Future Dates: January 21-23, 2025 January 20-23, 2025: Education

Attendee registration is expected to open in the Fall of 2025.

Support the Post-Tensioning Institute by using source code: A28



BRIDGES

Recommendations for Stay Cable Design, Testing, and Installation

DC45.1-18



These Recommendations pertain to the design, testing, and installation of stay cables for cable stayed bridges using prestressing wires, strand, or bar as the main tension element. Recommendations are presented only for stay cables used in redundant cable-stayed bridges. These Recommendations are intended to be used in conjunction with the appropriate provisions of the "LRFD Bridge Design Specifications," from the American Association of State Highway and Transportation Officials (AASHTO LRFD).

Printed Document Pricing	Protected PDF Pricing	Additional Information
\$ PTI Member: \$70.00	\$ PTI Member: \$59.50	Publishing Year: 2018
\$ PTI Non-Member: \$100.00	\$ PTI Non-Member: \$85.00	Language: English

Specification for Grouting of Post-Tensioned Structures







BRIDGES: CONTINUED

Specification for Multistrand and Grouted Post-Tensioning

M50.3-19



This updated specification provides minimum requirements for the post-tensioning system component testing and acceptance, design, and installation of multistrand and grouted post-tensioning systems. Based on proven knowledge and developed with the ANSI consensus process, it addresses the selection of tendon protection levels, system components, materials, installation, and stressing of post-tensioning tendons.



Anchorage Zone Design





This manual provides guidance on the comprehensive treatment of tendon anchorage zone requirements and analysis methods. There is a special emphasis on practical applications of a strut-and-tie design approach, which is recommended by AASHTO and ACI. Step-by-step design analyses for a number of typical anchorage zone conditions are included in this manual.





BRIDGES: CONTINUED

Acceptance Standards for Post-Tensioning Systems

M50.1-98



This publication provides specific technical requirements for the approval and acceptance of post-tensioning systems. Standards and performance requirements for prestressing materials, bearing plates, wedge plates, connections, and sheathing are discussed in detail. Qualification tests and acceptance criteria are presented for each of the individual components as well as for the complete system. A system approval summary outlines the test requirements and number of successful tests necessary for approval of a post-tensioning system. This document is not intended to cover unbonded



PTI Non-Member: \$50.00



PTI Non-Member: \$42.50



Additional Information



Language: English



JOIN A COMMITTEE!

PTI Committees are recognized for providing widely accepted standards of practice for nearly every facet of post-tensioning thanks to the participation of professionals across the industry. Help shape the codes and standards of the concrete industry and join a committee!

> If you are interested in joining a committee, please visit **post-tensioning.org/committees/joinacommittee** and fill out the online application.





POST-TENSIONING CONVENTION

April 14 - 17, 2024 May 4 - 7, 2025 Indianapolis, IN, USA Phoenix, AZ, USA

For additional information, please visit **post-tensioning.org/events/conventions**.





SLAB-ON-GROUND

Design, Construction, and Maintenance of Post-Tensioned Concrete Courts





Standard Requirements for Design and Analysis of Shallow Post-Tensioned Concrete Foundations on Expansive and Stable Soils





This publication is a revision to the DC10.5-12 combined standard that includes the inclusion of stable soils as well as other additions. The intention of the publication is to provide licensed design professionals with soil parameters, internal forces and stiffness requirements that are used for design of ribbed and uniform-thickness post-tensioned foundations on expansive and stable soils.





PTI Member: \$70.00



PTI Non-Member: \$100.00



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PTI Non-Member: \$85.00



Additional Information

Publishing Year: 2019



Language: English



SLAB-ON-GROUND: CONTINUED

Guide for Performance Evaluation of Slab-On-Ground Foundations

DC10.8-18



Construction and Maintenance Manual for Post-Tensioned Slab-On-Ground Foundations





This manual provides guidance for builders, subcontractors, and field personnel involved in the installation, stressing, and finishing of unbonded single-strand tendons used in the construction of light commercial and residential ground-supported foundation slabs.





SLAB-ON-GROUND: CONTINUED

Design of Post-Tensioned Slabs-On-Ground

DC10.1-08



Specification for Unbonded Single Strand Tendons for Slab-On-Ground Construction











REPAIR

Guide Specification for Unbonded Post-Tensioning Repair

DC80.4-18



Guide for Evaluation and Repair of Unbonded Post-Tensioned Concrete Structures





This guide provides an introduction to the evaluation and repair of existing concrete structures post-tensioned with unbonded single-strand tendons. It is intended to familiarize owners, licensed design professionals, contractors, suppliers, and other interested parties with the procedures, tests, equipment, and other aspects of the evaluation and repair process. This guide demonstrates how the strength and serviceability of a structure that has experienced deterioration can be evaluated and restored to its original or greater strength and serviceability.

Printed Document Pricing



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Additional Information Publishing Year: 2012



Language: English



REPAIR: CONTINUED

Guide for Creating Openings and Penetrations in Existing Slabs with Unbonded Post-Tensioning

POST-TENSIONING

CONVENTION

SUBMIT

April 14-17, 2024 | Indianapolis, IN, USA

DC80.2-10





The Post-Tensioning Institute is actively seeking speakers and presentations for the Technical Sessions portion of our next convention. These sessions focus on design, construction, research and new developments using post-tensioned concrete. Submit your Presentation Application form now!

OPTIONS:

25 Minute Presentation

50 Minute Presentation

2 Hour Session with Panel Discussion

INITIAL SUBMISSION DEADLINE: DECEMBER 1, 2024

To learn more and obtain the application form visit, post-tensioning.org/education/technicalsessions.



ROCK & SOIL ANCHORS

Recommendations for Prestressed Rock and Soil Anchors

DC35.1-14





CONTRIBUTE TO THE **PTI** JOURNAL



Would you like your article to be featured in the *PTI JOURNAL*? We are looking for creative technical articles about post-tensioning and its applications.

Deadline for 2024 Issue 2: June 3, 2024

Articles should not exceed 11,000 words. Full submission guidelines are on our website:

www.post-tensioning.org/publications/ptijournal

Submit your article by emailing it to Emily.Emanuelsen@post-tensioning.org





PTI CERTIFICATION: WORKSHOP DESCRIPTION

PTI offers training and certification workshops for field personnel shown to comply with requirements of IBC, ACI 318 and ACI 301. Proper training and education of personnel involved in post-tensioning (PT) field operations-installers, inspectors, engineers, and others - are vital to ensuring the performance, serviceability, durability, and safety of PT concrete construction.

Level 1 Unbonded PT Installation (EN) (SP)

This 2-day workshop outlines the basic body of knowledge that should be possessed by all personnel involved in the installation and inspection of single strand unbonded post-tensioning (PT) systems for elevated structures. It also serves as an effective introduction for personnel new to post-tensioning, while at the same time providing support and organization for experienced persons.

Level 1 & 2 Unbonded PT Installer & Inspector (EN) (SP)

This 3-day workshop combines information from Level 1 Unbonded PT Installation and adds additional installation and inspection content to enable installers, inspectors, building officials, engineers, and industry personnel to obtain Level 2 Unbonded PT Installer or Inspector certification. This workshop includes a field demonstration which includes the assembly of an elevated slab with discussion between the installers and inspectors on the key elements to a successful project.

🖕 🐘 Level 1 & 2 Unbonded PT Repair, Rehabilitation & Strengthening 🕬

This 2-day workshop enhances the knowledge and capabilities of installers and inspectors and other key personnel involved in the repair, rehabilitation, and strengthening of single strand unbonded post-tensioning (PT) systems for elevated structures. This comprehensive workshop assumes that the individuals in the workshop have current PTI certification for installation and stressing of single strand unbonded tendons for elevated construction together with field work experience in installation and stressing of unbonded tendons.

NOTE: All instruction for the scheduled workshops are in English ^(EN) unless otherwise indicated. All participants must be able to read and write in English, understand spoken English to attend an English workshop. Spanish ^(SP) workshops are conducted entirely in Spanish and all participants must be able to read and write in Spanish and understand spoken Spanish to attend a Spanish workshop. For more information, visit post-tensioning.org/getcertified.



PTI CERTIFICATION: WORKSHOP DESCRIPTION CONTINUED

Level 1 & 2 Slab-On-Ground Installer & Inspector (EN) (SP)

This 2-day workshop is designed specifically for installation and inspection of single strand unbonded post-tensioning (PT) systems for residential and light commercial slabs-on-ground. It outlines the basic body of knowledge that should be possessed by all personnel involved in the installation and stressing of PT in these light foundation systems. Hands-on training is included, and it requires the student to demonstrate a proficiency of the necessary skills for working with single strand unbonded post-tensioning systems for slab-on-ground construction.

Level 1 & 2 Multistrand & Grouted PT Specialist (EN)

This 3-day workshop covers the installation of multistrand and bar PT systems, procedures including safety, as well as grout materials, testing, and grouting techniques for multistrand applications. The equipment used for the various steps is also addressed.

Level 1 & 2 Multistrand & Grouted PT Inspector (EN)

This 1-day workshop designed to certify Multistrand & Grouted PT Inspectors. This workshop will enhance the knowledge and capabilities of individuals involved in the inspection of multistrand and bonded post-tensioning (PT) systems for multistrand applications.

Special Request Workshops

All six nationally recognized PT Training and Certification programs can be presented at your location by proven industry experts. Train and certify your employees or other groups and eliminate travel-related expenses. To learn more, visit **post-tensioning.org/getcertification**.



2024 PTI CERTIFICATION WEEKS SCHEDULE

WORKSHOP TITLE	DATE	LOCATION	
Level 1 Unbonded PT	March 19-20	Atlanta, Georgia	
Installation	May 7-8	Houston, Texas	
	September 10-11	Miami, Florida	
	October 21-22	Denver, Colorado	
	November 19-20	Austin, Texas	
Level 1	March 21-22	Atlanta, Georgia	
Unbonded PT	May 7-8	Houston, Texas	
(Spanish Language)	September 12-13	Miami, Florida	
(opanion _angaage,	October 23-24	Denver, Colorado	
Level 1 & 2	March 18-20	Atlanta, Georgia	
Unbonded PT	Мау 6-8	Houston, Texas	
Installer & Inspector	September 9-11	Miami, Florida	
	October 21-23	Denver, Colorado	
	November 18-20	Austin, Texas	
Level 1 & 2	March 21-22	Atlanta, Georgia	
Unbonded PT	May 9-10	Houston, Texas	
Repair, Rehabilitation. &	September 12-13	Miami, Florida	
Strengthening	November 21-22	Austin, Texas	
Level 1 & 2	May 9-10	Houston, Texas	
Slab-On-Ground Installer & Inspector	November 18-19	Austin, Texas	
Level 1 & 2 Slab-on-Ground Installer & Inspector (Spanish Language)	May 9-10	Houston, Texas	
Level 1 & 2 Multistrand	September 11-13	Miami, Florida	
& Grouted PT Specialist	November 20-22	Austin, Texas	
Level 1 & 2 Multistrand & Grouted PT Inspector	November 23	Austin, Texas	





All of our six nationally recognized post-tensioning certification programs can be presented at your location by a proven industry expert. PTI offers knowledge-based training to certify your employees and eliminate travel-related expenses.

To learn more visit **post-tensioning.org/getcertified**.





UPCOMING PTI EVENTS

April 14-17, 2024 2024 Post-Tensioning Convention The Westin Indianpolis Indianapolis, Indiana, USA

May 4-7, 2025 2025 Post-Tensioning Convention Sheraton Phoenix Downtown Phoenix, Arizona, USA

May 4-7, 2026 2026 Post-Tensioning Convention The Westin Long Beach Long Beach, California, USA

2027 PTI Events Coming Soon!

October 2-4, 2024 **2024 PTI Committee Days** Grand Hotel Cancún Managed By Kempinski Cancún, Quintana Roo, Mexico

September 30-October 3, 2025 2025 PTI Committee Days Grand Hotel Cancún Managed By Kempinski Cancún, Quintana Roo, Mexico

September 30-October 3, 2026 2026 PTI Committee Days Grand Hotel Cancún

Managed By Kempinski Cancún, Quintana Roo, Mexico





HAVE POST-TENSIONING QUESTIONS? WE HAVE REINFORCED ANSWERS.

The Post-Tensioning Institute has engineering staff available to assist you with any post-tensioning related technical questions you might have about a document or a project.

If you have a technical question, issue, or challenge to be met with post-tensioning, our team can provide assistance and answers. Contact us via e-mail at *technical.inquiries@post-tensioning.org*.

THE POST-TENSIONING INSTITUTE Your resource to the post-tensioning industry.

