

**COURSE NUMBER**

FHWA-NHI-130103

**COURSE TITLE****Post-Tensioning Tendon Installation and Grouting - WBT**

Post-Tensioning Tendon Installation and Grouting Web-based Training (WBT) delivers content on post-tensioning principles, system components, and installation procedures - including quality control procedures - which will assist supervisors, inspectors, and construction inspectors in the performance of their job. This WBT provides guidance to individuals involved in the design, installation, grouting, and inspection of post-tensioning tendons for prestressed concrete bridges and is intended to be an online complement to the Post-Tensioning Tendon Installation and Grouting Manual. Participants who complete this WBT will have a general understanding of post-tensioning components, construction, as well as testing and acceptance procedures. This WBT will better prepare individuals for more intensive certification courses in post-tensioning installation and grouting (PTI Level 1 & 2 PT Field Specialist and ASBI Grouting Certification Training).

OUTCOMES

Upon completion of the course, participants will be able to:

- Describe the use of post-tensioning to prestress concrete bridges
- Describe the composition and essential features of prestressing steel and anchorages
- Describe the composition and essential features of ducts and grout
- Describe the testing and acceptance procedures for post-tensioning system materials and components
- Describe post-tensioning tendon component installation, including the role of post-tensioning shop drawings in the construction process
- Describe the operations required to stress post-tensioning tendons
- Describe the importance and proper methods for calibrating jacks and their role in on-site testing for friction and modulus of elasticity
- Describe the elements of grouting operations
- Identify the methods, materials, and details that provide satisfactory corrosion protection

TARGET AUDIENCE

This training is targeted at owners and private company personnel that may be involved in the design, inspection, and construction of bridges that contain PT tendons. This course is intended for those with beginner to intermediate knowledge and/or skills in the area post-tensioning tendon installation and grouting principles and practices.

TRAINING LEVEL: Basic

FEE: 2017: \$50 Per Person; 2018: N/A

LENGTH: 6 HOURS (CEU: .6 UNITS)

CLASS SIZE: MINIMUM: 1; MAXIMUM: 1

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