

POST-TENSIONED REINFORCING

Post-tensioned reinforcing is used as an active reinforcement system in a wide variety of concrete structures including foundations, buildings, parking structures, bridges, and environmental structures.

Utilizing high strength steel placed inside the concrete, and tensioned (or stressed) after the concrete hardens results in increased tensile strength, reduced deflections, and increased control of camber, while also gaining the benefit of actively compressing the concrete which helps reduce cracking.

Engineers that incorporate post-tensioned reinforcing into their designs depend on proper installation, stressing, grouting, and finishing procedures being followed in the field.



Requiring Post Tensioning Ironworker Certification™ on your projects satisfies code requirements, pre-qualifies your installers and helps to ensure a safe, successful, quality project.

**Evaluation and
Certification
Services, LLC**



*When Quality In The Field
Matters - Specify Post Tensioning
Ironworker Certification™*

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CORE COMPENTANCIES

Individuals certified under this program have demonstrated their knowledge in the following areas:



basic principal and theory, handling and storage of materials, plan reading, installation, stressing, finishing, and grouting of post-tensioning systems

This is done through successful completion of an extensive certification exam.

Applicants for certification must meet certain prerequisites including completion of a formal training course which must be accredited by the American Council on Education (or equivalent). Individuals certified under this program meet model code requirements for individuals who install, stress, and grout post-tensioned reinforcing systems.

CERTIFICATION ENDORSEMENTS

Certification under this program includes two separate endorsements, one for installers of single strand unbonded (monostrand) tendons, and one for installers of bonded (multistrand or bar) tendons. Applicants for Post Tensioning Ironworker Certification™ must meet certain prerequisites for training and/or experience, and must obtain a passing score on a certification exam.

The endorsement in single strand unbonded (monostrand) post-tensioning meets the requirements of the current model building codes and other project specifications that incorporate the American Concrete Institute's Specification 423.6, which requires anyone who is responsible for the handling, installation, stressing and finishing of post-tensioning systems to be certified.

The endorsement in bonded (multistrand and bar) post-tensioning is designed to meet emerging requirements by State Departments of Transportation for anyone who installs, stresses, and grouts these systems on bridge structures to be certified.

Both endorsements also meet new requirements by various Canadian Provincial Governments which require certified individuals to handle, install, stress, and grout post-tensioning systems on building and transportation projects.

USE AND ACCEPTANCE

Since its inception, 1000's of people have participated in this Certification Program and taken the exam. The passing rate is approximately 78%. Certified individuals are using this credential to meet project and code requirements throughout the United States and Canada to install, stress, grout, and finish post-tensioning systems in foundations, buildings, bridges, and other structures.

PROGRAM MANAGEMENT

This program is administered by Evaluation and Certification Services, LLC, who manages all aspects of the testing, evaluation of applications, and issuance of certification credentials. ECS is an independent third party certifier and is not owned or managed by any company or organization that might participate in the certification program.

Additional information about the program can be obtained by contacting ECS.

**E v a l u a t i o n a n d
C e r t i f i c a t i o n
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