

## PTIA WEB BASED TRAINING SCHEME



PTIA has been delivering training in post-tensioning for operatives since 2008. Since that time, the PTIA training modules have been extended from the initial Mono Strand module to include Multi-Strand and Stress Bar modules. In 2010, the PTIA training material was presented as part of the Certificate III in Steelfixing qualification. It is expected that a new qualification ***Certificate III in Post-Tensioning*** will be available in the early part of 2013. Under this qualification, the three PTIA modules will be –

- CPCCSF3002A Carry out Mono Strand Post-tensioning
- CPCCSF3003A Carry out Multi Strand Post-tensioning
- CPCCSF3004A Carry out Stress Bar Post-tensioning

### Web based scheme

Through ACI Global, an ISO 29990 International Learning Service Provider, PTIA has now developed its training scheme to be available through ACI Global's "e-learning centre".

The scheme has been developed so that knowledge learning and assessment can be completed through the e-learning centre, and skills development and assessment can be undertaken on the trainee's work site.

On successful completion of the training and assessment, the trainee will receive a *Certificate of Competence* and a wallet sized card verifying completion. Assessments are conducted by PTIA assessors. For PTIA Corporate Member companies, each will be offered the Assessor training and accreditation so that they can conduct assessments for their own staff. Non PTIA member companies will need to engage an accredited PTIA assessor to conduct assessments for their staff.

Presently the scheme only offers the ***Mono Strand*** module. Multi Strand and Stress Bar modules will be added progressively.

To access this training, and to receive the training and assessment materials, go to the ACI Global PTIA e-learning page : [click here](#) to register.

**Pre-Requisite:** CPCCOHS2001A-Apply OHS requirements, policies and procedures in the construction industry.

Fees for the Mono Strand module are:

- PTIA Corporate Members : \$330.00 including GST
- Non PTIA Members : \$2,156.00 including GST (includes assessor fee in Brisbane, Sydney, Melbourne and ACT)

To become a Corporate Member (for post-tensioning contracting companies) of PTIA [click here](#) for details and application form.

### **How It Works** (Mono Strand module)

On registration and payment of the required fee, the student will be advised that their email and password has been activated for them to commence the training and assessment. They will then receive the PTIA Mono Strand Training Manual and Student Learning Log. The training and assessment involves the following tasks :

**Task 1: Conduct practical learning tasks in accordance with the PTIA Mono-strand Training Manual.**

The student will undertake on the job training in Mono-strand Post-tensioning under the instruction and supervision of an experienced employee, from their company, in accordance with the procedures set out in the PTIA Mono-strand Training Manual. The student will be supplied with the PTIA Mono-strand Training Manual and a Student Learning Log, which their supervisor will fill in when performance criteria are met. The Student learning Log, upon completion, shall be scanned and uploaded to the learning platform.

**Task 2: Demonstrate the application of knowledge by participating in an assessment under visual observation (video) on an existing Post-tensioning project.**

The student will be assessed by an ACI Global endorsed Assessor. The assessment material and video observations will be uploaded to the learning platform.

**Task 3: Undertake a course assessment questionnaire, covering all elements within the unit of competency.**

Once the previous two tasks are complete, the student will undertake a questionnaire on the learning platform. This will be immediately assessed. The student must achieve a 90% pass mark, otherwise they will be required to repeat the assessment after a mandatory wait period.

**Completion:** On successful completion, the student will receive a ***Certificate of Competence*** and a credit card sized PTIA card, suitable for carrying on site.

[An overview of the course content is on the following page]

## **Mono Strand Module Content**

Fundamental concept of Prestressed Concrete

General Safety on Site

Prestressing Systems

Installation

- Fixing anchorages

- Laying Duct

- Setting up Coil of Strand

- Pushing Strand into Duct (manually and with Strand Pusher)

- Forming Dead Ends

- Tendon Profiling

- Fixing Dead Ends, Group Vents, and Taping Ducts

- Prepour Inspection

- Concrete Pour

Stressing

- Initial Stressing

- Final Stressing

- De-tensioning

Cut Strand & Seal Recesses

Grouting