Quality

Reliability

Assurance

CAPABILITY STATEMENT 2015

CONTENTS

INTRODUCTION

Post Tension Company Group (PTC) was established in August 2010, providing Australian builders total Post Tension Design and Construction as well as supply and installation services. Our executive team shares in over 50 years combined experience and proudly stands at the forefront of Post Tensioning in the Australian development and construction industry.

Post Tension Company Group was expanded in 2013 with the introduction of a new division, PTC Civil. This growth is reflected with a growing team of highly skilled staff using cutting edge technology, equipment and machinery.

As the founding component of this company, our experts understand the wealth of benefits Post Tensioning offers, including; exponential savings of building material and labour costs during the construction period.

With strong experience in all aspects of design and execution, The PTC Group boasts a solid portfolio of structures including schools, retail centers, residential and commercial buildings. The PTC Group considers no job too big or too small.

Today The PTC Group has established an industry benchmark for supplying quality products, excellent and reliable services, an exceptional safety record, up to date calibration certification of all stressing equipment, and is fully supported by a host of professional and experienced staff to meet and conquer the challenges of our customers.

CONTACT

(Head Office)

Address	1/2A Rothwell Ave, Concord West NSW Australia 2138
Phone	02 8757 3012
Email	info@posttensioncompany.com.au
Web	www. posttensioncompany.com.au/

OUR TEAM

The PTC Group workforce is made up of two vital teams:

Skilled:

Foremen

Steel-fixers

Rig operators

Labourers

Support:

Engineers

Safety Officers

Managers / Supervisors

First Aiders

Rehabilitation Officer

Providing the services in:

Post tension slabs

Pilling

Anchoring

Shotcreting

Upholding PTC's:

WHS Policy

Environmental Policy

Quality Assurance Policy

Training Policy

Consultation Policy

Drug and Alcohol Policy

Industrial Relation Policy

Injury Management Policy

UV Protection Policy

PTC Group Leaders

Managing Director & Founder	Sarkis Nassif
Executive Operation Manager	Jason Chidiac
Project Manager	Jimmy Nassif
Construction Manager	Amihuti Moala
Head of Design and Engineering	William Zhang
OH&S & Quality Assurance Manager	Frimpong Badu
Finance & IT Manager	Suzy Saab

ACCREDITATION

The PTC Group's Management Systems personnel are committed to practicing the highest standards of management and have been accredited with the following systems:

- AS/NZS 4802 OHS Management Systems -2001
- ISO 14001 Environmental Management Systems -2004
- ISO 9001 Quality Management Systems - 2008

POST TENSIONING

Being the founding element of The PTC Group, we pride ourselves on offering the best in post tensioning technology and services. As leaders in all areas of post tension design and execution, The PTC Group boasts a solid portfolio of structures including schools, retail centers, residential and commercial buildings.

Post-Tensioned concrete is a method of applying compression after pouring concrete. Galvanised duct which is anchored at both ends is profiled by using tendon chairs to follow the area where otherwise tension would occur in the concrete element. Steel strand (12.7mm typically) is pushed through the duct (known as tendons) and the concrete is poured. Once the concrete has achieved required strength, the tendons are stressed by hydraulic jacks. When the tendons have extended sufficiently, according to the design specifications, they are wedged in position and maintain tension after the jacks are removed. The duct is then grouted to provide corrosion protection and bond between the pre-stressing steel and concrete elements.

SERVICES: POST TENSIONING DESIGN

When it comes to Post Tensioning Design, we believe that professional planning of the building structural system should be executed as early as possible. The vertical supports of the building such as columns and walls may be spaced at 8m to 10m by using Post Tensioning system comparing to only 5m to 7m using conventionally reinforced slab. The engineering design team of PTC Group is able to provide constructive and prompt advice to our client in regards to slab thickness, column spacing and cost comparison at very early stages of the project. Some of the benefits for our clients are as follows:

- Head room issues can be better resolved prior to DA
- Formwork complicity can be understood early
- Reinforcing steel tonnage, concrete volume, Post-tensioning cost can be more accurately estimated
- More flexible room/floor usage layout

The PTC Group's engineering design team are nationally accredited. We are capable of developing further and fully detail a preliminary design that is provided by the project structural engineer (consultant). All engineering analysis and shop drawings are undertaken locally in-house. Clients communicate directly with our assigned Senior Engineer regarding any technical matters of the project. At The PTC Group, we promise our client with reliable and economical design in accordance with relevant Australian Standards with consideration of buildability. We are more than happy to alter our design to suit any construction or architectural needs in a timely manner as the project advances.

SERVICES: CIVIL

PTC Civil specialises in multiple shoring and stabilisation works, namely piling, ground anchoring, shotcreting and slope stabilisation. We provide highly experienced, dedicated engineering and labour professionals focussing on efficiency, productivity, and delivering a high standard of service. We are leaders in providing cost effective and innovative solutions. Over time, PTC Civil has built a portfolio of successfully completed high quality works, on time under budget. At PTC Civil, we assure attention to detail to all of our clients irrespective of the size of the project or scope of works, and always produce the results that our clients desire.

SHOTCRETE

The PTC Civil Shotcrete team are reliable and committed to a quality finish. Our hand-picked team is comprised of experienced concrete pump operators to ensure the quality of service is always in accordance to our strict standard and in compliance with our OH&S AS4801.

Our team of renderers offer a wide range of concrete surface finishes and colours required by our clients.

Surface finish types;

- Float Finish
- Steel Trowel Finish
- Gun Finish

SERVICES: CIVIL CONTINUED

ANCHORING

The PTC Group's expansion lead us into investing in cutting edge machinery and technology to provide the best in anchoring systems.

Temporary and Permanent Strand Anchoring: This system works in the same way as a typical post tensioned member. The anchors transfer forces into the ground and provide stability for the shoring wall through the prestressed tendons. The designed Anchor can vary in length depending on ground conditions and loads. The strands are de-stressed when temporary anchoring is required. **Soil Nails***:* Soil Nails increase the load bearing capacity of a soil through a passive anchoring mechanism and are suitable for slope or embankment stabilisation and construction pit walls. They are installed in a pattern and grouted to obtain a stable soil section.

Rock Bolts: Rock Bolts are used to stabilise unstable rock cuts and inside tunnels. They provide a compressive force to support to an unstable rock exterior.

Drill Hollow Bar System: This anchoring system works as a load bearing Soil Nail with the combined mechanism of a micropile. It is an effective method for slope stabilisation and basic excavations. Drilling and grouting can be achieved in a single procedure therefore installation is efficient and available for a variety of soil types.

PILING

CFA Piling: Continuous Flight Auger Piling works by drilling to the design level, and in that same continuous sequence of operation, concrete is pumped through the stem of the auger as it is removed. Finally a reinforcement cage is inserted into the liquid concrete. This technology is efficient and also suitable for installation below the ground water table.

Sheet Piling: Sheet Piles are thin steel sheets which are embedded in sequence, interlocking to construct a retaining structure that transfers back fill pressure into the foundation below. Soil conditions determine whether they are driven or vibrated into the ground.

Bored Piles: Bored Piles are essential in building foundation works where it is necessary to manage large vertical loads and bending moments. They are constructed by drilling, inserting a temporary casing, installing a reinforcement cage and then placing concrete.

Capping Beams: Capping beams function to transfer vertical loads into constructed piles, in addition functioning as pile caps, therefore inhibiting pile lateral displacement.

SERVICES: STRUCTURAL DESIGN

When you need professional structural engineers to assist with your property needs or construction projects, you can rely on the expert advice and solutions provided by our nationally accredited engineers. At The PTC Group, we are not only engineers but also designers who proactively offer collaborative, innovative and cost saving solutions to our clients.

PTC can offer you our structural engineering consulting and design expertise in:

- New luxury homes development
- New mid to large residential development
- New commercial development
- New industrial development
- Existing structure strengthening and rectification
- Fit-out/renovation projects

We specialise in the following design and reporting services:

- Post-tensioned and Prestressed system (slab or vertical structural element)
- Post-tensioned slab-on-ground system (widely used in heavy duty industrial warehouse)
- Steelwork structure including beams, columns and whole roof or warehouse portal frame (hot-rolled or light-gauge)
- Retention/shoring system/Ground Anchoring
- Conventionally reinforced concrete slab design
- Retaining walls
- Temporary works (scaffolding support frame, temporary propping for construction loading and etc.)
- Balustrade and edge protection structure
- Long-span and cantilevered structure (Truss, Arch, Cable-stay, Pre-camber)
- Precast concrete system
- Foundation system
- Metal ribbed flooring system (Bondek, Kingflor, Condek and etc.)
- Building strengthening
- Value engineering (cost-saving analysis)
- Driveway and customised carport
- Existing wall removal
- CAD drafting service
- Building defect inspection and reporting
- Structural performance specification
- Dilapidation report (to meet Council, utilities and insurance requirement)

SERVICES: CONSTRUCTION

In combining our expertise in Civil and Post Tensioning, The PTC Group are at the forefront of providing various services to the construction industry.

CONCRETE PLACEMENT – SUPPLY AND INSTALL OF CONCRETE PLACEMENT

With experience in concrete supply and installation for a variety of post tensioned slab types and decks there is a high quality assurance guaranteed and protection of Post tension set out. This is completed in coordination with the Post Tensioning Team to ensure a smooth transition between installation and the pouring of concrete.

STEEL FIXING – SUPPLY AND INSTALL OF STEEL REINFORCEMENT

Shoring wall reinforcement such as Mesh, Dowel Bars, Horizontal Bars and Vertical bars are installed in conjunction with shotcrete to provide additional retaining force. Strip Drains are also secured in order to release sub soil water.

LABOUR HIRE

Specialist on-site workers are provided to install and efficiently carry out both Post Tensioning and Civil Works. Our highly experienced labour personnel focus on efficiency, productivity and delivering a high standard of service.

PLANT HIRE

PTC Civil and Construction provides both dry and wet hire of machinery, equipment and services. This includes shotcreting pumps, anchoring rig, stressing equipment, compressors, grouting pumps and piston pumps.

PROJECTS COMPLETED

The PTC Group Portfolio is constantly expanding with modern and cutting edge designs in Greater Sydney and New South Wales. With a specialised and tailored experience, our clients are provided with expert direction, innovative services and top tier results.

DEANE ST, BURWOOD

Builder: Urban Apartments

Units: 140

PT Tonnage Provided: 150 +

Area: 14 000 m2

This iconic building in the heart of Burwood is the tallest building in the region. It comprises of 4 basement levels, commercial and retail space, with residential and serviced apartments starting from Level 11 - a total of 140 units. PTC has provided the post tensioning design, and provided supply and installation services of this 24 storey, multipurpose development.

ARNCLIFFE ST, WOLLI CREEK

Builder: Top Pacific Construction

Units: 162

PT Tonnage: 130 +

Area: 20 000 m2 +

Completed in late 2014 PTC has provided and installed post tensioning tendons for this 8 storey residential building. Spanning over 20 000 m2, this project comprises of 162 units. Aside from its thoughtfully designed interiors, the development boasts balconies and green spaces for an easy outdoor lifestyle.

PROJECTS CURRENT

O'RIORDAN ST, MASCOT

Builder: Hamilton Marino

Units: 54

PT Tonnage Provided: 70 +

Area: 10 000 m2

This 11 storey development is centrally located in emerging Mascot, with each apartment featuring the smartest technology and elegant views of Sydney City. The Post Tension design of this project is being undertaken by thriving in – house PTC engineers leading to a flawless finish by the PTC installation crew.

'ROSEBERY PARK' (DALMENY AVE), ROSEBERY

Builder: Toplace

Units: 1100

PT: 900 +

Area: 13 000 m2

This large scale project encompasses 10 residential buildings comprising of 1100 units, for which PTC has supplied and installed post tensioning tendons. The vast scale of this project demonstrates the reliability and work ethic of the PTC onsite installation team, working efficiently alongside the team of builders, delivering on our promise of quality and assurance.

PROJECTS: CURRENT CONTINUED

BURNSBAY RD, LANE COVE

Builder: Alliance Project Group

Units: 300

PT: 320 +

Area: 48 000 m2 +

Appointed by Alliance Project Group, PTC was asked to design and construct the Post Tension works for this large scale project at Lane Cove. Provided with a very fast construction programme, PTC is working closely with the builder, engineers and all relevant trades to deliver an impeccable finish to this project. The project is due to finish early 2016 and when complete the project will have 5 buildings spanning to a total of 44 floors.

WOODVILLE ST, HURSTVILLE

Builder: Hua Cheng International

Units: 68

Pt tonnage provided: 90 +

Area: 17 000 m2 +

Located in Hurstville, this is a 13 storey mixed purpose building, comprising of 17 office suites, 25 retail shops, and 50 luxury residential apartments. The strong emphasis of PTCs assurance on reliability and quality is perfectly evident on this project. Construction commenced on January 2015 and is expected to be completed in mid-2016.

PROJECTS: CURRENT CONTINUED

CHARLES ST, CANTERBURY

Builder: Toplace

Units: 254

PT Tonnage: 320 +

Area: 10 000 m2 +

PTC is currently providing and installing post tensioning tendons for this 10 storey residential building. The building is positioned alongside the Cook River, with idyllic views and mindful design, this project seeks to bring the best out in Canterbury Town living. A well finished, quality installation is assured by the hardworking PTC team onsite.

GREAT NORTH ROAD, FIVE DOCK

Builder: Icon

Units: 152

PT Tonnage: 141.2

Area: 25 000 m2 +

Awarded in July 2015 by Icon Co, PTC will be undertaking the design, supply and installation for the Post Tension works of this project, which comprises of four residential towers that will ultimately house 152 residences and basement parking. This is a high volume project that both the PTC design and installation teams see as an exciting challenge, and an opportunity to demonstrate the reliability and assurance that can only be possible through a genuine passion for their work.