



**Accuracy and Speed is Us**

## **PROFESSIONAL TESTING COMPANY LIMITED**

**The Thailand's Number 1 Independent Testing Laboratory  
for Mechanical and Metallurgical Test**



**"Solutions to eliminate delayed testing and report inaccuracies are our specialty."**



**ISO / IEC 17025 : 2005 Accredited  
under National Standardization Council of Thailand  
Office of the National Accreditation Council (NSC-ONAC)**



**NSC-TISI-TIS 17025  
Testing 0250**

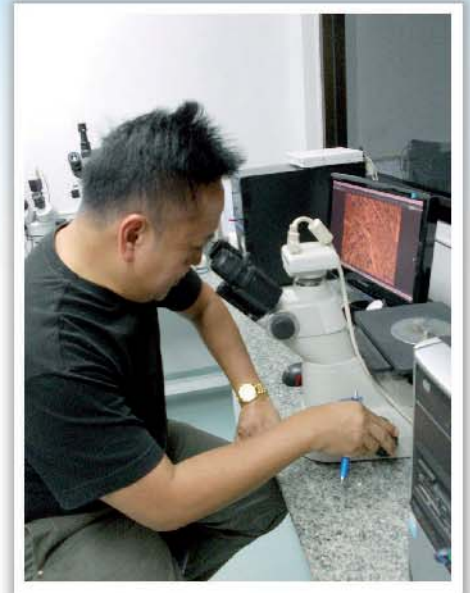
[www.professionaltesting.co.th](http://www.professionaltesting.co.th)

# Scope of Testing Services

Our services include the preparation and machining of test specimens with fully guarantee for the traceability of the test pieces and results.

## Mechanical Testing

- Tensile and Compressive Testing
- Bend Testing
- Charpy V, U-notched Impact Test (-196 C to 30 C)
- Hardness Test (Vicker, Brinell, Rockwell)
- Fracture and Fillet-weld break Test
- Nick Break Test
- Flattening Test
- Bonding Strength Test
- Friction Coefficient Test
- Surface Roughness Test



## Metallurgical Testing

- Macrostructure Analysis
- Microstructure Analysis and Grain Size Measurement
- Corrosion Test (Pitting, Intergranular)
- Ferrite Content by Manual Point Count
- Surface Coating Measurement
- Chemical Composition Analysis by Spectrometer

## On-site Inspection

- Ferrite Content by Feritscope
- Thickness of metal measurement (UTM)
- Positive Material Identification (PMI) by XRF
- Positive Material Identification (PMI) by Spectrometer
- Replica Test or Field Metallography Test



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## Mission and Vision

### Our Philosophy

In any business venture, a lost foresight in causes of delays and inaccuracies always amounts to substantial losses of time and investment or bankruptcies.

### Our Vision

To help the construction industry deliver their goods and services by eliminating delays due to testing and inaccuracies.



### Our Speed

- 5 PQR in one day (24 hrs)
- 45 Impact specimens in 8 hrs
- 1 PQR in 4 hrs



**Service of Mechanical / Metallurgical Testing for metal (carbon steel, stainless, Ni-based, super-alloyed etc.) upon International Standard :**

- ASTM
- ASME Code
- AWS D1.1 / D1.5 / D1.6
- API 1104
- AS / NZS
- BS / EN / ISO
- JIS
- Other Standards : DNV, NACE, Lloyd's, ABS, BV, and TISI



American Petroleum Institute

### Past reference projects supported by our services.

- Ichthys Onshore LNG Facilities Project, INPEX, Australia
- PTT Arthit and Bongkot Bundle Platforms Project
- PNG LNG Project, Australia
- M9 Zawtika Project—PTTEPI
- Yetagun Booster Compression Platform—PTTEPI
- MTR Express Rail Link : West Kowloon Terminus, Hong Kong
- PTT LNG Tank Terminal Project
- Arthit Northern PTTEP PLEM
- PTT PLC Offshore Gas Spur Line
- MANORA PCIC
- Carigali—PTTEPI Development Project
- Chevron 2011- 2013 Installation of Platforms & Pipelines
- Nang Nuan Modification Project
- FMG Solomon Project
- Allseas Wheatstone Project
- Carigali Hess : Piping Fabrication, Installation and Testing
- Yolla MLE Project, Australia
- ONGC ESSAR D1 Development Project
- Saudi Kayan Amine Project
- Motiva Crude Expansion Project (of EXXON)
- PLUTO LNG Tanks Project
- Freeport McMoran Copper and Gold Inc., Miami
- Saigon M&C Tower Project in Vietnam (Ho Chi Minh City)
- MOC Cracker Project
- PURAC-QUINTEN Project
- DOOSAN MECATEC—Iran 13 Vessels Project

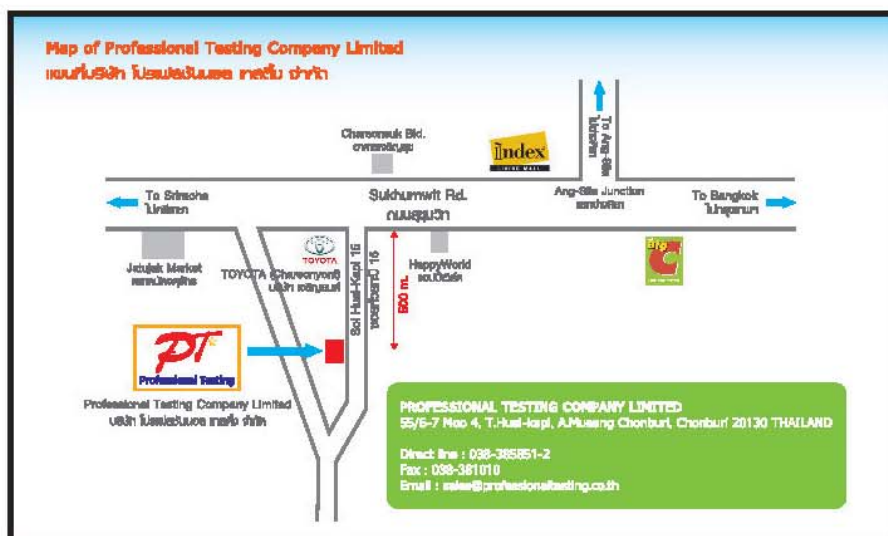


Since our foundation in 2006, we had steadily expanded to giving our testing services to more than 180 companies in fabrication, ship-building and construction industry. As a consequence, we had successfully supported more than 100 multi-billion projects in Thailand and abroad. Our growth therefore speaks for itself.



**If TRACEABILITY = ZERO, it's Mission Impossible**

- a) Machine shop always plays an integral part in the pursuit of speed and accuracy in testing. A separated machining process independent of testing process makes traceability approaches zero. Therefore, troubleshooting for root causes of testing failures sometimes, if not most of the time, becomes Mission Impossible.
- b) Impact SRM's specimens (standard reference materials) must be traceable to NIST. As stipulated in ASME IX's QW-170, 171, SA-370's 23.1 and ASTM's E23 (A 2.4.1.2) states that impact's SRM are available from NIST. Further states that if other sources of SRM's are procured, values must be established on the three reference machines OWNED, MAINTENANCED and OPERATED by NIST in Boulder, Colorado, USA.



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