

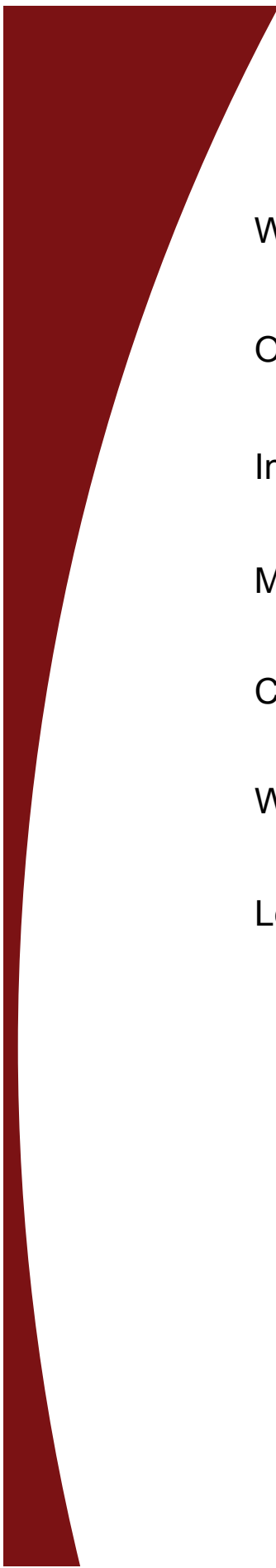


# Inspection Services

- Non-Destructive Testing
- Coating Inspection
- Weld Inspection
- Level 3 Consultation



PMI International



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## Who We Are

We are a team of Project Management and QA/QC Professionals based in China, Hong Kong, Macau and Taiwan. We offer Expatriate Managers with highly qualified local support teams to oversee your manufacturing, fabrication, procurement and supply chain management.

At PMI International, we are flexible. We bring management solutions designed to meet your specific needs, We'll match the right training and the best project management consultants to the task at hand.



PMI International



## Overview

Quality control and Inspection is a process by which entities review the quality of all factors involved in production. ISO 9000 defines quality control as "A part of quality management focused on fulfilling quality requirements"

Quality control emphasizes testing of products to uncover defects and reporting to management who make the decision to allow or deny product release, whereas quality assurance attempts to improve and stabilize production (and associated processes) to avoid, or at least minimize, issues which led to the defect(s) in the first place. For contract work, particularly work awarded by government agencies, **quality control issues are among the top reasons for not renewing a contract.**





Asset owners and operators aim for the highest quality design and construction of new industrial facilities in order to achieve their strategic goals. Throughout the process, projects must comply with local and international regulations during the construction and/or revision of assets, while ensuring that human and environmental safety are maintained against a background of cost control. With PMI International, we provide in-depth expertise, experience and knowledge of relevant legislation, QAQC and NDT techniques.





## Inspection Services (NDT / Welding / Coating)

In PMI, we assist clients in multi-technique of inspection and QA/QC in order to acquire full and relevant overviews of quality, asset condition, using a cost-effective approach and taking into account the latest and most advanced technological solutions in NDT. We deliver a solution for our clients, ensuring every detail is addressed through a consistent, and to ensure every detail



of project specification / client's requirements are to be met with the support of our team of highly experienced qualified inspectors, supervisors, and project managers that have been working across the globe in remarkable international projects in multiple

industries such as Oil & Gas, Bridges, Ship Building, Building Construction, Mining and Marine Works.





## Our range of inspection and testing services :

Multidiscipline Non-Destructive Testing (NDT) including;

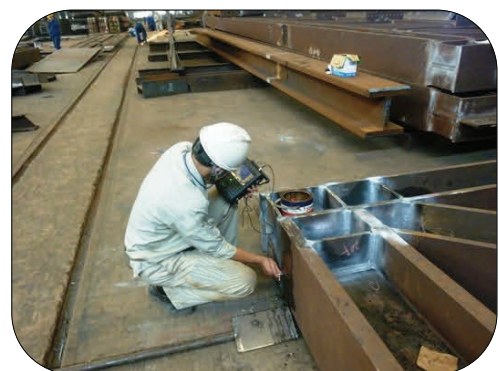
- Ultrasonic examination thickness testing and corrosion mapping
- Ultrasonic examination weld scan
- Magnetic particle testing
- Penetrant testing
- Electromagnetic testing (Eddy current)

Coating Inspection (NACE / ICORR / BGAS)

Welding Inspection (CSWIP / PCN)

Level 3 Consultation including;

- Welding (CSWIP 3.2 / PCN Level 3)
- Coating (NACE Level 3 / ICORR Level 3)
- NDT (ASNT)

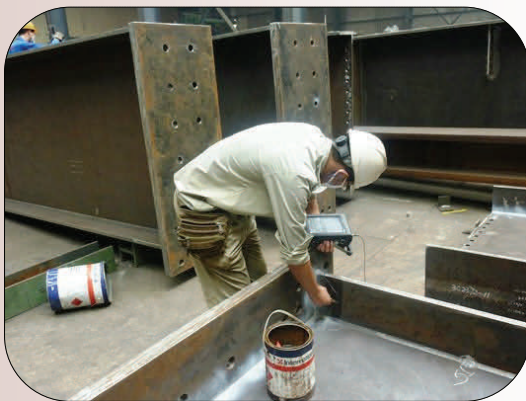




## Multidiscipline Non-Destructive Testing (NDT)

Nondestructive Testing (NDT) is a use test methods to examine an object, material and workmanship without impairing its future usefulness. Non-destructive testing is often required to verify the quality of a weld joint and material. PMI services offers:-

- \* UT - Ultrasonic Testing (Weld / Thickness Mapping / Corrosion Mapping)
- \* MT - Magnetic Particle Testing
- \* PT - Dye Penetrant Testing
- \* ET - Electromagnetic Testing (Eddy Current)

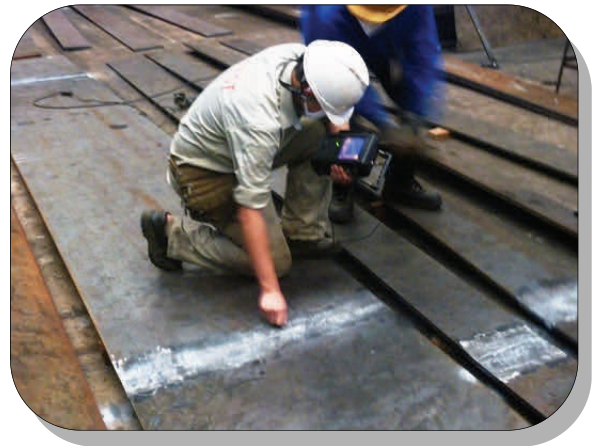






### UT - Ultrasonic Testing (Weld / Thickness Mapping / Corrosion Mapping)

Ultrasonic testing uses high frequency sound energy to conduct examinations and make measurements. Ultrasonic inspection can be used for flaw detection/evaluation, dimensional measurements, material characterization, and more.



### MT - Magnetic Particle Testing

Magnetic particle testing is accomplished by inducing a magnetic field in a ferromagnetic material and then dusting the surface with iron particles. The surface will produce magnetic poles and distort the magnetic field in such a way that the iron particles are attracted and concentrated making defects on the surface of the material visible.



### PT - Dye Penetrant Testing

The dye penetrant testing can be used to locate discontinuities on material surfaces. A highly penetrating dye on the surface will enter discontinuities after a sufficient penetration time, and after removing the excess dye with a developing agent, the defects on the surface will be visible.

### ET - Electromagnetic Testing (Eddy Current)

Electromagnetic testing is the process of inducing electric currents and/or magnetic fields inside a test object and observing the response. A defect in the test object may be detected where electromagnetic interference creates a measurable response



## Coating Inspection (NACE / ICORR / BGAS)

We offer corrosion engineering, protective coating and third party inspection in accordance with International Standards (NACE / SSPC / BS / EN / ASNZ and etc.) to assist companies to maintain project quality standards. Working across a wide range of industries, we act as the client's / contractor's representative or 3rd party for inspection and surveillance of overall processes of protective coatings.



Our coating inspectors' qualifications are recognized internationally – National Association of Corrosion Engineers (NACE), Institute of Corrosion UK (ICORR) and British Gas (BGAS). PMI's Coating Inspectors have been involved with many small and large scale projects, and proficient in performing and reporting on all coating related inspections to the International Standards and requirements.





## Our Coating Inspection Services Include;

### Surface Preparation Inspection Prior to Coating Activity;

- WFT – Wet Film Thickness
- DFT – Dry Film Thickness
- Ambient Conditions Monitoring
- Surface Profile Tests
- Surface Contamination Check
- Paint Mixing and Surveillance



### Painting Inspection, Report Writing, and QA Documentation Compilations;

- Cure Tests , Adhesion Tests, and DFT Checks
- Low Voltage (Wet Sponge) / High Voltage Holiday Testing
- ITP Deliverables
- Coating Documents Review
- Compilation of Coating Reports
- Material Data Record (MDR) Compilations.

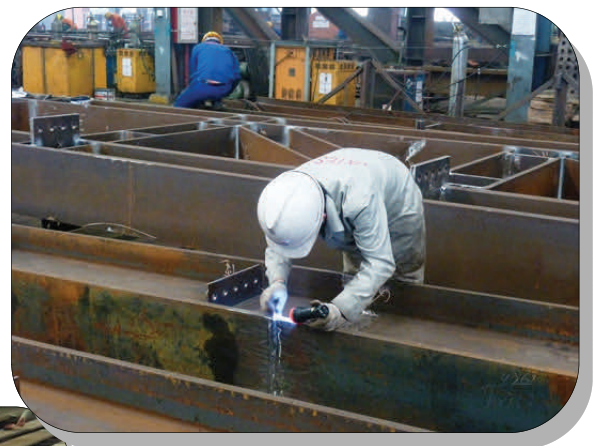


## Weld Inspection (CSWIP 3.1 / PCN Level 2)

PMI also offers weld inspection services to its clients, whether they are an asset owner, engineer, designer, procure and construct contractor or a fabrication company. PMI assist the client to meet the projects quality objectives by undertaking inspection activities on their behalf. We service the structural manufacturing and fabrication sectors for the Oil & Gas, Mining, Power Generation, Chemical, Ship Building, Marine and Defense industries.

Our services not only limited into weld inspection but also include the overall activity such as:-

- ◆ Pre inspection meetings
- ◆ Pre fabrication Vendor's document reviews
- ◆ Fabrication and Welding Inspection
- ◆ Dimensional inspection
- ◆ Final Inspection
- ◆ MDR reviews and sign-off







## Level 3 Consultation

Our dedicated experience inspection team of Weld, Coating and NDT Level 3 personnel hold current CSWIP 3.2, NACE 3, BINDT (PCN to ISO 9712 & EN 473) and ASNT certifications, and possess detailed knowledge of international Standards as well as extensive experience in a multitude of applications covering various industries.

We can assist our Client with personnel qualification, procedure writing, auditing services and program recommendations, which:

- Detect / assess (early stage) defects
- Optimize inspection and testing procedures
- Solve difficult problems
- Audits





## Our Level 3 Consultation Services Include;

### Written Practices

- Preparation of Laboratory Quality Manuals to the requirements of ISO 17025
- Preparation of written practices to SNT-TC-1A
- Preparation of written practices to International relevant standards

### Procedure Writing & Review

- Preparation, update, review of inspection procedures for routine, novel or difficult inspections
- Preparation, review of procedures based on national, international or in-house Standards

### Audit Services

- Pre-audit consultancy
- Assistance during audits
- Assistance with annual audits and reviews
- Proficiency testing of NDT personnel

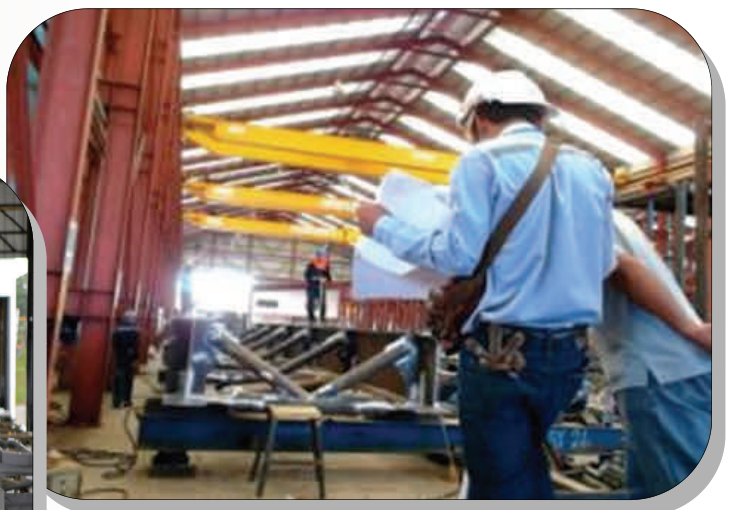


### Training & Qualification of Personnel

- Variety of training programs (NDT method, Coating, Welding) designed to meet client needs, training, examination and qualification of personnel under in-house NDT schemes, e.g. SNT-TC-1A

### Equipment Assessment

- Determination of the operational suitability of existing equipment, guidance on selection of new equipment









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PMI International