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# API 653

## ABOVE GROUND STORAGE TANK INSPECTOR

FUNDAMENTAL STORAGE TANK DESIGN ENGINEERING

FOR ALL TANK INSPECTORS, PLANT OPERATIONS & MAINTENANCE PERSONNEL, CORROSION & DESIGN ENGINEERS INVOLVED WITH INTEGRITY ASSESSMENT OF IN-SERVICE TANKS.

PERSONS SUPPORTING REPAIRS, REPLACEMENT & PREVENTIVE MAINTENANCE WILL ALSO BENEFIT FROM THE API 653.

PART TIME & FULL TIME AVAILABLE

Course	Seminar Fee
API 653	2000 SGD + 7% GST (Course Materials & Standard Codes)

\* TOP UP REQUIRED FOR EXAMIINATIONS

Singaporeans & SPRs enjoy IMMEDIATE **\$900 FUNDING SUPPORT**



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Quality Solutions Provider



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**Training Duration: 60 hours**

**Examination: 7 hours**

Open Book 4 Hours

Closed Book 3 hours

### Fee Details:

Seminar & Exam Fee	
Foreigner	Locals (Post-Funding)
SGD 2850 + GST	SGD 2100 + GST

### Brief:

Expect to learn about Basic Storage tank design engineering (API 650), In-service inspection techniques (API 653/ RP 575/ RP 577), In-service degradation mechanisms (API 571), Cathodic protection (API RP 651) & Lining of tank bottom (API RP 652)

Review main concepts and technical terms of API 510 Inspection Code & understand basic design and rules for correct fabrication, inspection and testing of Pressure Vessels.

### Modules:

1	Fundamentals of Storage Tank Design & construction (API 650)	15	Allowable stress values
2	Shell design, roof design, bottom Design	16	Material selection
3	Impact test requirement of API 650 & impact test results	17	Shell thickness calculations: bottom plate thickness, roof plates, nozzle openings
4	API 650 Requirements for Tank fabrication, erection, NDT and Leak testing	18	Scope, Definitions and organisation of API 653 Inspection Intervals
5	Data evaluation and corrosion assessment of Roof, Shell & bottom	19	Estimation of corrosion rate, Inspection and testing practices of API 653
6	Evaluation for brittle failure	20	Various preventive actions against degradation
7	Frequency and extent of inspection, data evaluation	21	Repairs, alterations, reconstruction, relocation & re-erection of storage tanks
8	Replacement of tank bottom	22	Hot tapping on tank shell
9	Detail discussions on material corrosion and degradation (API 571)	23	NDT of tank repairs, leak testing. Evaluation of bottom settlement
10	Storage tank Inspection (study of other codes and standards)	24	Discussions on cathodic protection methods against soil corrosion (API RP 651)
11	Recommended practices for inspection of storage tanks (API RP 575)	25	Discussions on Lining of bottoms of storage tanks (API RP 652)
12	Introduction to ASME Sec IX and its various provisions	26	Welding procedure qualification & welder qualification
13	Case studies of checking of PQR & WPS	27	Discussions on Corrosion Protection & Quality of Welding & API RP 577 Welding Inspection
14	Discussions on Lining of bottoms of storage tanks (API RP 652)	28	Various NDE methods to detect flaws in metals
15	Understanding rules imposed by ASME Sec V for various NDE techniques		

## LOCATION

PIONEER JUNCTION #03-19  
3 SOON LEE STREET  
SINGAPORE (627606)