



REACH QUALITY RANKS WITH ADVANCED INSPECTIONS

API 936

REFRACTORY PERSONNEL

FUNDAMENTAL REFRACTORY INSTALLATION & QUALITY CONTROL METHODS

REFRACTORY PERSONNEL IN PETROCLEUM, PETROCHEMICAL & CHEMICAL INDUSTRIES CONCERNED WITH INSTALLATION, INSPECTION, TESTING AND REPAIR OF REFRACTORY SYSTEMS.

PART TIME & FULL TIME AVAILABLE

Course	Seminar & Exam Fee
API 936	2400 SGD + 7% GST (Course Materials & Standard Codes)

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Quality Solutions Provider



Training Duration: 32 hours
Examination: 4 hours
Closed Book

Brief:

Candidates can expect to learn about Refractory materials & their properties, Laboratory Testing Procedures, Installation, Quality Control, Post-installation Inspection and Acceptance of the Refractory Lining as per usage in Refineries, Power generation stations, Petrochemical facilities and chemical industries & referenced standards like ACI and ASTM.

Design, installation, inspection, and repair of refractory systems in Pressure vessels, Exchangers, Piping, Boilers, and Fired equipment will also be covered.

Modules:

1	What are Refractories, Various refractory materials	13	Technical terms and definitions, API 936 Overview
2	Desirable properties of refractory materials	14	Laboratory Testing Procedures, Material Qualification
3	Test methods and related calculations	15	Testing equipment, sample preparation techniques, test specimens
4	Refractory Installation methods (e.g. gunning, casting, ramming, and hand packing)	16	Sampling and sample preparation procedures
5	Procedures for determining optimal water content and mixing	17	Environmental factors (minimum and maximum temperatures)
6	Surface preparation and cleanliness requirements	18	Anchor: welding, layouts, patterns, materials
7	Frequency and methods of production sampling: gunning, casting, hand packing	19	Water addition: quantity and temperature, mixing procedures
8	Guniting procedures and equipment	20	Casting procedures and equipment (e.g. air vibrator, vibrator frequency, vibrator sizing, forming, setup)
9	Ramming/Hand packed procedures and equipment	21	Visual and non-destructive test methods and qualification testing methods
10	Application/limitation for various inspection techniques	22	Curing and dry out procedures
11	Placement of temperature sensing probes	23	Recommended heat up and cool down schedules
12	Lining integrity inspection techniques		

LOCATION

PIONEER JUNCTION #03-19
3 SOON LEE STREET
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