
QA/QC - SYLLABUS

- Quality
- Quality control
- Quality Assurance
- Difference and details of QA and QC
- Quality Management
- TQM
- Duties & responsibilities of QC and QA inspector

Test Surface

- Surface preparation
- Contamination and details
- Soluble salts measurements
- Removal processes
- Manual and power tools

Forms of corrosion

- Consequences
- PREN
- Galvanic series
- Environmental induced cracking
- Stress corrosion cracking
- Hydrogen induced cracking
- Erosion corrosion
- Cavitation
- Liquid metal embrittlement

Welding

- Weld symbols
- Welding drawing
- Weld joint designs
- Edge preparation
- Welding positions
- Welding processes
- Welding parameters
- Electrode Classification
- Discontinuities and defects

Piping

- Pipes
- Pipe and pipelines
- Failure mechanism
- Colour coding
- Pipe alignments
- API 570
- ASME B 31.1 and 31.3
- Pipe service
- Inspection Intervals
- Corrosion rate and life

Other Types of Testing

- Destructive testing
- Tensile test
- Compression test
- Hardness test
- Flexural test
- Charpy impact test
- Creep rupture test
- Relaxation test
- Cupping test

Welding brazing soldering

- Types of Brazing
- Types of Soldering

ASME SEC IX Boiler and pressure vessel code

