

Holds a B. Sc. in Mechanical Power Engineering and has over 20 years hands-on experience working as Piping and Mechanical Site Engineer for Oil & Gas (Petrochemical and Hydrocarbon Facilities, Power Piping Facilities, Process Gas Facilities, Water Treatment Facilities, Tanks, Pressure Vessel and Boilers Casing) and Electricity Power Generation Plants.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 24/09/1977  
Gender : Male  
Marital Status : Married  
Residence : El-Behira

## **EDUCATION**

: B. Sc. in Mechanical Power Engineering, Tanta University, 2000

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

: Windows, MS Office, Internet  
: Cad Operator 2D & 3D (AutoCAD 2007, 2013)  
: Solid Works 2000 (3D Mechanical Design, Assembly, Drawing, CAD/CAM Software)  
: Primavera user (P3)

## **TRAINING COURSES AND CERTIFICATIONS**

: Certified of API 570 Authorized Piping Inspector (Expiration Date: Nov. 2020).  
: CWI (Certified Welding Inspector) (Expiration Date: Nov. 2020).  
: Certificate of Introduction to ASME Standards & Certification, 2.0 Hours Professional online course (2020).  
: Certificate of Introduction to Welding Processes, 4.0 Hours Professional online course (2020).  
: Certificate of W59 Workshop to Supervisors and Inspector, 4.0 Hours Professional online Course (2020).  
: Certified ASNT-NDT Level II, with the "SNT-TC-1A" Requirements.

- : U.T (Ultrasonic Testing) by ASNT NDT Level III No. 155516 (Expiration Date: Oct. 2019).
- : R.T (Radiographic Testing) by ASNT NDT Level III No. 155516 (Expiration Date: Oct. 2019).
- : V.T (Visual Inspection Testing) by ASNT NDT Level III No. 87643 (Expiration Date: Mar. 2019).
- : M.T (Magnetic Particle Testing) by ASNT NDT Level III No. 155516 (Expiration Date: Oct. 10, 2020).
- : P.T (Dye Penetrant Testing) by ASNT NDT Level III No. 155516 (Expiration Date: Oct. 10, 2019).
- : AUT (Automatic Ultrasonic Test) by ASNT NDT Level III No. 87643.
- : PAUT (Phased Array) (Expiration Date: Oct. 2019).
- : ET (Eddy Current Test) by ASNT NDT Level III No. 87643 (Expiration Date: Apr. 2019).
- : Training of Attendance International Engineer (IWE) from Production Engineer special unit (Alex. University).
- : Training of Attendance ASME Section (ASME II, ASME V, ASME VIII & ASME IX) from CIC.
- : Certified of Project Management Professional at AAST (Arab Academy for Science, Technology & Maritime Transport).
- : Certified of Solid Works (3D Mechanical Design, Assembly, Stress Analysis (Finite Element), Heat Disruptions, Animator (Simulation), Drawing, CAD/CAM Software).
- : Attendance training as ASME Section, IX Qualification Standard for welding and brazing Procedures, Welders, Braziers and welding and Brazing Operators (from EWA).
- : Certificate of Internal / Lead Auditor ISO 9001:2008 (Quality Management System) (Mar. 2010).
- : Certificate of Attendance (Applied Welding Technology) from EWA.
- : Certificate of Attendance (Heat Treatment Course) by Petrojet.
- : Certificate of Attendance H2s Course in Zohr Development Project.
- : Training of Attendance Piping Designer (G'A, P&ID, Marked Up Drawing & Final As Built) by ENPPI.
- : Training of Attendance (Piping Software 3D Model) by ENPPI.
- : Certificate of Technicality & Active Appreciation from Agiba/Eni Petroleum Company.
- : Certificate of Technicality & Active Appreciation from Apache Petroleum Company.
- : Certificate of Technicality & Active Appreciation from GUPCO/British Petroleum Egypt.
- : Certificate of Technicality & Active Appreciation from ENPPI Co.
- : Certificate of Technicality & Active Appreciation from DSD FerroMetalco Construction.
- : Certificate of Technicality & Active Appreciation from Daelim Construction & Engineering Co.
- : Safety Courses at GUPCO (Defensive Driving, Safety Training Observation, Environment Awareness, Occupational Health, Energy Isolation, Isolation Certificates, Permit to work, Advanced Safety Audit, Helicopter Safety, Hazard Identification, Risk Assessment, Hydrogen Sulphide, Fire Fighting, Work at Heights, Performing Authority For Hot Work Activities, Confined Space).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Sep. 2019 till now
- Employer** : Perfect Engineering Work
- Project** : Maintenance and Fabrication Workshop
- Job title** : Corporate QA/QC Manager
- Job Description** :
- Attend the daily Coordination Meeting every morning with GENERAL PRODUCTION MANAGER.
  - Authorized to close for all Open issues by CLIENT/OWNER.
  - To assure timely and effective Implementation of a Workshop Quality Control Program.
  - To recommend actions to Top Managers to correct observed Quality Deficiencies.
  - To review Critical to Quality shop Drawings and Submittals for CLIENT/OWNER approvals.
  - Officially responsible for Supervision of Mechanical Works for a Number of varied Sections.
  - Supervising, directing and coordinating the Workshop team.
  - Perform Complex Technical Work in Support of Workshop team work.
  - Recommend Appropriate Actions to ensure Compliance with all Local Regulations & QCP.
  - Conduct or Coordinate detailed inspection phases of the Mechanical & Electrical Works.
  - As a quality control reviewer for all aspects of Mechanical & Electrical Works.
  - As a quality control reviewer with our Team for prepared the welding Procedure Specification and Procedure Qualification Record.
  - Initiate and complete the correction of any adverse conditions to ensure that assigned projects proceed on right procedure & quality.
  - Perform site surveys and assessments.
  - Prepare all mechanical, Electrical procedures and method of statement as fabrication and erections procedures, NDT Procedures, PWHT and preheat procedures.
  - Working knowledge, review of shop drawings and responding to field requested changes.
  - Liaising with clients and their representatives (architects, engineers and surveyors), including attending regular meetings to keep them informed of progress.
  - Day-to-day management of the site, including supervising and monitoring the site labor working procedures.
  - To inspect for Erection of Rotary Equipment's such as Pump, Compressor, Fin fan cooler assembly, Performance test and Final alignment.
  - To inspect for Erection of Static Equipment's, Vessels, Installation of internal trays and Preparation for Inspection.
- Dates** : From Dec. 2014 till Sep. 2019
- Employer** : EME (Elkrom Middle East)
- Projects** :
- Zohr Gas Field Development-Onshore Project Phase I & II
  - New Capital 4800MW Combined Cycle Power Plant

**Job title** : • New Assiut Simple Cycle Power Plant 1000MW (Fast Track)  
**Job Description** : QA/QC Manager

- Prepared Documents of ISO 90001 and attend discussion with International Organization.
- Prepared ASME DEMO and attend discussion for ASME Review with ASME TEAM LEADER concerning A, PP & R stamp.
- Attend the daily Coordination Meeting every morning with CLIENT/OWNER.
- Authorized to close for all Open issues by CLIENT/OWNER.
- To assure timely and effective Implementation of a Project Quality Control Program.
- To recommend actions to Project Managers to correct observed Quality Deficiencies.
- To carry out any Task that is required by Project Manager.
- To review Critical to Quality shop Drawings and Submittals for CLIENT/OWNER approvals.
- Officially responsible for Supervision of Mechanical Works for a Number of varied Sections.
- Supervising, directing and coordinating the Project team.
- Perform Complex Technical Work in Support of Project team work.
- Recommend Appropriate Actions to ensure Compliance with all Local Regulations & QCP.
- Conduct or Coordinate detailed inspection phases of the Mechanical Work.
- As a quality control reviewer for all aspects of mechanical works.
- As a quality control reviewer with our Team for prepared the welding Procedure Specification and Procedure Qualification Record.
- Initiate and complete the correction of any adverse conditions to ensure that assigned projects proceed on right procedure & quality.
- Assist in the development and improvement of processes, tools, and resources utilized by the Mechanical Department.
- Perform site surveys and assessments.
- Prepare all mechanical, electrical procedures and method of statement as fabrication and erections procedures, NDT Procedures, PWHT and preheat procedures.
- Working knowledge, review of shop drawings and responding to field requested changes.
- Liaising with clients and their representatives (architects, engineers and surveyors), including attending regular meetings to keep them informed of progress.
- Day-to-day management of the site, including supervising and monitoring the site labor working procedures.
- To inspect for Erection of Rotary Equipment's such as Pump, Compressor, Fin fan cooler assembly, Performance test and Final alignment.
- To inspect for Erection of Static Equipment's, Vessels, Installation of internal trays and Preparation for Inspection.

**Dates** : From Jun. 2013 till Dec. 2014  
**Employer** : Agiba Petroleum Company / Eni-Agip Petroleum Company Representative (Consultant contract)

- Projects** : • Melehia New Tank 50,000 BBL  
• 6"-Dorra Pipe line  
• 8"-Aman Water Injection Pipe line  
• Gas Turbine manifold modification
- Job titles** : • Welding / Painting Inspector  
• Tank Welding Inspection Engineer
- Job Description** : • Attend the daily coordination meeting every morning with Petrojet contractor.  
• Review for all Relevant QC Recommended Records (MIRR, RFI, NCR, DR, SIR, H.O....etc.).  
• Review and approval for RT Calculations for each Tank accor. to (API 650 & AWWA-D 100).  
• Review for initial Quantity of Welding by (m), (kg) & relevant quantity of consumables needed for each tank.  
• Review and Approval with Petrojet Contractor delivery Materials on Site by Technical Accept report.  
• Review and Approval for WQT, WPQR & PWPS according to ASME IX.  
• Review and Approval for NDE Procedures & NDE scope & Construction method of statement & General Construction Procedures.  
• Review and approval the marking and Location (Level & Orientation) of the Tank Nozzles according to Drawings.  
• Review and Approval for Air Pressure test or pneumatic test and oil penetrating Procedures.  
• Witness and Approval Vacuum box for bottom, roof Plate and perform recommended Hydro Test Activates.  
• Review and Approval Several Required Dimensional check for every course Shell according to API 650, AWWA-D 100 (Peaking, banding Plumpness, roundness ...etc.).  
• Review and Approval for Painting Inspection internal, external and roof structure.  
• Randomly Inspect Manufacturer's Label Showing Batch Number, Order Number and Date of Manufacture.  
• Witnessing of UT, PT and MPI & Preparation of NDT Reports, Hardness Survey, Thickness Survey and Stage by Stage Weld Inspection.  
• Performed Inspection of Fit-Up and Dimensional as per Isometric and P&ID.  
• Line checking with test packages, punch clearing, witness and inspection of hydro testing.  
• Interaction with Concern Departments and Disciplines such as Row, Stringing, Welding, Coating, Trenching, Lowering, OFC & Duct Laying, Backfilling, TIE – IN, HDD Boring, Cathodic protection installation and hydro testing.
- Dates** : From Nov. 2011 till Jun. 2013
- Employer** : BAPETCO / Shell Petroleum Company Representative (Consultant contract)
- Projects** : Assil and Karam Duplex Pipeline Project
- Job title** : Duplex Pipeline Inspection Engineer
- Job Description** : • Review with Petrojet Contractor delivery Materials on Site by Technical Accept report.  
• Reviewed and Witnessed and Approval for WQT, WPQR & PWPS

according to Shell (DEP).

- Witness and Reviewed for Pitting Corrosion test those duplex stainless steel materials in Lab.
- Reviewed and Approval for Welding Method NDE Procedures & NDE scope & Construction method of statement & General Construction Procedures according to Shell Specifications.
- Review and approval for all Welding Log, Welding Maps & Radiographic Maps.
- Continuous Monitoring of Petrojet Contractor to Avoid Wasting Time and Materials and Solutions in Conjunction with the Event. According to Shell Technical Specifications (DEP).
- Witness and approval for Hydro, Leak Test phase and Reinstatement.
- Interaction with Concern Departments and Disciplines such as Row, Stringing, Welding, Coating, Trenching, Lowering, OFC & Duct Laying, Backfilling, TIE – IN, HDD Boring, Cathodic protection installation and hydro testing.
- Prepared and Handed Over All Mechanical Completion Files to Operation Gas Plant.
- Responsible on studying applicable codes, standard and specification to Extract the acceptance criteria for welding and Requirement of NDE & preheat and PWHT operation.

<b>Dates</b>	:	From Mar. 2008 till Nov. 2011
<b>Employer</b>	:	K.P.C / Apache Petroleum Company Representative (Consultant contract)
<b>Projects</b>	:	<ul style="list-style-type: none"><li>• Qasr/Salam 24" P/L Phase I, II Project</li><li>• Qasr Gas Facilities &amp; Production (phase II)</li><li>• 18" Salam/Abuelghardek Chemical Cleaning Project</li><li>• Kalabsha Oil Plant Facility Project</li><li>• New 8" Oil P/L Meliha-Sumpetco Facilities Upgrade</li><li>• Salam Gas Plant - Permanent Slug Catcher</li></ul>
<b>Job title</b>	:	Sr. Mechanical Superintendent / Sr. QA/QC (Welding)
<b>Job Description</b>	:	<ul style="list-style-type: none"><li>• Review of Piping and Mechanical Designs, Studies, Reports and Proposals.</li><li>• Prepare for Time Schedules, Plans, Conducts And Coordinates Detailed Phases of Engineering.</li><li>• Review the Work activities for other Piping and Valve of Contractor Engineers.</li><li>• Assist in the Job Training of Assigned Personnel. Perform Supplier Document Reviews. Improvement Work Process Improvement Goals.</li><li>• Supervising the Pre Fabrication and Erection of the Pipe Networks at Site with All Related Construction, punch list, Hydrostatic Test and Pneumatic Test &amp; Commissioning.</li><li>• Review with Contractors delivery Materials on Site by Technical Accept report.</li><li>• Review and approval for all Welding Logs, Welding Maps &amp; Radiographic Maps.</li><li>• Review for All Vendor Equipment's &amp; Vendor Packages.</li><li>• Review and approval as Built Drawing for Built Drawing for site modifications such as (Direction, Deferent Materials, and Deferent Class &amp; Site Requirements).</li><li>• Comparison between Layout, G'A, P&amp;ID and Drawing.</li></ul>

- Prepare for Material Take Off and Material Balance.
- Continuous Monitoring of Contractors to Avoid Wasting Time and Materials and Solutions in Conjunction with the Event.
- Review and Witness for wrapping joints by polypropylene and Polyethylene materials.
- Review and Approval NDE Procedures & NDE scope & Construction method of statement & General Construction Procedures according to Project specifications.
- Review and Approval for Cladding & Base Plate Repair Procedures.
- Review and Witness for Hydro Test, Leak Test, and Reinstatement Activates.
- Prepared & Handed Over All Mechanical Completion Files to Operation Gas Plant.
- Witness and approved for construction inspections (DT, NDT, calibration test...etc.).
- Checking the elevation, Anchor bolt distance, Bolt projection Padding, Elevation, Alignment, Plumping, Grouting material and calculating the Grouting Quantity.
- To inspect for Erection of Static Equipment's, Vessels, Installation of internal trays and Preparation for Inspection.

<b>Dates</b>	:	From Mar. 2007 till Mar. 2008
<b>Employer</b>	:	GUPCO / British Petroleum Representative (Consultant contract)
<b>Project</b>	:	24" A/G Western Desert – Dahshur Gas Pipeline Repair Project
<b>Job title</b>	:	Sr. QA/QC Pipe Line
<b>Job Description</b>	:	<ul style="list-style-type: none"> <li>• Prepared for Time Schedules, plan, conduct and coordinate Detailed Phases of Engineering.</li> <li>• Review with Contractor delivery Materials on Site by Technical Accept report.</li> <li>• Review and approval for WQT, PQR &amp; PWPS according to Project Specifications.</li> <li>• Review and Approval NDE Procedures &amp; NDE scope &amp; Construction method of statement &amp; General Construction Procedures according to Project specifications.</li> <li>• Review and Approval for QHSE such as method of statement, HSE Procedures, Risk Assessment and commissioning Procedures (Log out &amp; Tag Out).</li> <li>• Witness and approval for Replaced corrosion repair Area.</li> <li>• Continuous Monitoring of Contractors to Avoid Wasting Time and Materials and Solutions in Conjunction with the Event.</li> <li>• Review and Witness for the Painting System (Line X) by pole and adhesion test.</li> <li>• Review and Witness for wrapping joints by polypropylene and Polyethylene materials.</li> <li>• Review and Witness for Hydro Test, Leak Test, and Reinstatement Activates.</li> <li>• Prepared &amp; Handed Over All Mechanical Completion Files to Operation Gas Plant.</li> </ul>

**Dates** : From Mar. 2006 till Mar. 2007  
**Employer** : ENPPI Petroleum Co. (Engineering for the Petroleum and Proc. Industries)  
**Project** : Gupco Rehabilitation Projects – on-shore/off-shore  
**Job title** : On-shore/Off-shore QA/QC  
**Job Description** :
 

- Review and approval for WQT, PQR & PWPS according to Project Specifications.
- Review and Approval NDE Procedures & NDE scope & Construction method of statement & General Construction Procedures according to Project specifications.
- Continuous Monitoring of Contractors to Avoid Wasting Time and Materials and Solutions in Conjunction with the Event.
- Review of Extension Healy deck and control room designs for M36 and badr Platform.
- Witness and Approval NDT, DT, Construction inspections for Extension Healy deck and control room (onshore and offshore).
- Review and Approval Piping Punch List and LDT.
- Review with Petrojet Contractor delivery Materials on Site by Technical Accept report.
- Review for the Materials traceability and add mentioned on Visual Reports.
- Witness Hydro, Leak Test, Reinstatement Activates and Review for Test Packages.
- Prepare & Handed Over All Mechanical Completion Files to Operation Gas Plant.

**Dates** : From Nov. 2003 till Mar. 2006  
**Employer** : DSD Ferrometalco Construction  
**Projects** :
 

- Nubarria Power Plant (Combined Cycle) Project
- ANSALDO Boilers Projects
- New Talkha Power Plant (Combined Cycle) Project

**Job title** : QA/QC Welding  
**Job Description** :
 

- Prepared and Witnessed PWPS, PQR according to Project Specifications & ASME IX.
- Following up (Inspection Test Plan (ITP), Client Specs & Method of Statement).
- Perform Welder's Qualifications Test (WQT) and preparing certifications.
- Checking Machines Calibration Certificates & Perform the Calibration if needed.
- Surveillance, monitoring & Control Welding (Before - During - After) Process.
- Monitoring Dimensional Checking, Status of Raw material, &, materials Certificates.
- Ensuring Compliance with last version & approved for construction Drawing.
- Evaluate initial quantity of welding by (m), (kg) & relevant quantity of consumables needed for tanks.
- Execute Safety legislation & follow up site rules, principles & required precautions.
- Observe:
  - Consumables Certificates & compliance with approved WPS.



- Heaters & portable ovens calibration certificates.
- Determination ambient temperature, humidity & wind speed for applying preheat.
- Following Heating Process (heaters & ovens).
- Electrodes Protection, storage and using.
- Apply Control system for using electrodes by weigh.
- Check weld preparation (fit up, root opening, joint geometry...etc.) according to drawing.
- Maintaining all Relevant QC Recommended Records (MIRR, RFI, NCR, DR, SIR, H.O.C. etc.).
- Evaluate RT Calculations for each tank according to (API 650) & (AWWA-D 100).
- Attend the carried-out NDT as a spot Witness and Interpret RT Films to approve.
- Monitor Repairs gouging and welding by means of VT and RT.
- Check the marking and location (level & orientation) of tank nozzles according to drawings.
- Check the fit up and assembly of tank nozzles (piping and flanges) before welding.
- Using Vacuum box for bottom, roof inspection and perform recommended hydro test.
- Apply Penetrant test (PT) after visual inspection as recommended ITP.
- Perform several required dimensional check for every coarse of shell plates according to API (650):
  - Plumpness.
  - Roundness.
  - Peaking.
  - Banding.
- Responsible for preparing:
  - Weld map & Weld matrix.
  - Welders productivities.
  - Daily & Weekly Welders Report.
  - Monthly Performance Report for Welders.
  - Monthly Tracking Report for top management.
- Preparing the required visibility studies for procedure following up, an envelopment & operations enhancement to achieve clients complains and requests.
- Performing pre-weld, in progress, and post weld inspection.
- Consequently, Consider Responsible for Welding (Preparation & Production & Inspection).

**Dates** : From Dec. 2001 till Nov. 2003

**Employer** : The Petroleum Projects and Technical Consultation Company (Petrojet)

**Project** : Upgrade Off-shore Services (Jacket, Duck & Plates)

**Job title** : QA/QC Engineer

**Job Description** :

- Check up the Welding Joints by NDT.
- Review all documents for this project.
- Project Welder Qualification, PQR'S & WPS'S preparation.
- Review all Welds & NDT procedures.

**Dates** : From Sep. 2000 till Dec. 2001  
**Employer** : Daelim Construction & Engineering Co.  
**Project** : MIDOR Refinery Project (Petroleum) in Alexandria  
**Job title** : Welding Inspector  
**Job Description** :

- Review all Welding Logs, Welding Maps & Radiographic Maps.
- Review & approved WQT's, PQR's & WPS for this project.
- Review Method of Statement Welding for Power, Process Piping Fabrication & Tanks.
- Review & approved NDT scope & NDT procedures.

**Field of experience** :

- Certified International Welding Inspector CWI and Certified Lead Auditor ISO 9001: 2008, also Qualified and Certified according to ASNT-TC-1A Level II VT, RT, MT, PT, ET, UT and AUT / NDT Method.
- Experience earned from working 20 years in inspections and welding field working in the new construction of: HRSGS (Heat recovery Steam Generators), thermal boilers, Gas Turbines 9E Models and Supercritical Boilers, Infra-Structure Piping work and recently in Oil & Gas Refinery (Petrochemical and Hydrocarbon Facilities, Power Piping Facilities, Process Gas Facilities, Water Treatment Facilities, Tanks, Pressure Vessel and Pipe Line).
- Working Experience as a Client or a Consultant Representative under the largest global companies system or such as (BP, Apache, Shell) at a technical and QA/QC activities. Have best engineering tools and sense, capable of developing the work and performing it at its planed quality schedules and safety. Following the company system and safety roles, as a part of team and Team Leader too.
- Can do the office work and the site work too. Have very high safety culture, very good experience at many computer software, and excellent familiar with an international Standards / Codes (API, ASME, ASTM, AWS, PCN and National Board and some Companies Specifications).
- Familiar with the following materials:
  - SA-335 P91 (X10CrMoVNb9-1) 1.4903
  - SA-335 P11 (13CrMo4-5) 1.7335
  - SA-790 UNS S31803 (X2CrNiMoN22-5-3) 1.4462 (Duplex)
  - SA-312 TP321 (X6CrNiTi18-10) 1.4541
  - Incoloy 800H (X10NiCrAlTi32-20) 1.4876
  - Inconel 600 (NiCr15Fe) 2.4816
  - API 5L Gr A, B, X42, X46, X52, X56, X60, X65
  - X20CrMoV12-1 (1.4922)
  - SA-333 Gr 1, 6
  - SA-790 UNS S32906 (Safurex)
  - SA-312 TP347 (X6CrNiNb18-10) 1.4550
  - SA-106 A, B, C
  - 16Mo3
  - St 35.8 P235G1TH (1.0305)
  - SA-335 P22 (10CrMo9-10) 1.7380
  - SA-312 TP304L (X2CrNi19-11) 1.4306
  - SA-312 TP316L (X2CrNiMo17-13-2) 1.4404
  - SA-312 TP316Ti (X6CrNiMoTi17-12-2) 1.4571
  - 20MnMoNi 4-5 (1.6311)
  - 15NiCuMoNb 5-6-4 (1.6368)

- St 37.0 P235T1 (1.0254)
- Knowledge of International Codes and Standards such as:
  - API:
    - API 510 Pressure Vessel Inspection Code: In-Service Inspection, Rating, Repair and Alteration.
    - API 570 Piping Inspection Code: Inspection, Repair, Alteration and Rerating of In-service Piping Systems.
    - RP 571 Damage Mechanisms Affecting Fixed Equipment in the Refining Industry.
    - RP 572 Inspections of Pressure Vessels.
    - RP 573 Inspections of Fired Boilers and Heaters.
    - RP 574 Inspection of Piping System Components.
    - RP 576 Inspection of Pressure-Relieving Devices.
    - RP 577 Welding Inspections and Metallurgy.
    - RP 578 Material Verification Program for New and Existing Alloy Piping Systems.
    - RP 579 Fitness-For-Services.
    - RP 580 Risk-Based Inspections.
    - Publ 581 Risk-Based Inspection – Base Resource Document.
    - RP 582 Welding Guidelines for the Chemical, Oil and Gas Industries.
    - STD 598 Valve Inspections and Testing.
    - STD 650 Welded Tanks for Oil Storage.
    - STD 653 Tank Inspections, Repair, Alteration and Re-construction.
  - ASME:
    - B31.1 Power Piping.
    - B31.3 Process Piping.
    - B31.4 Pipeline Transportation Systems for Liquid Hydrocarbons and other Liquids.
    - B31.8 Gas Transmission and Distribution Piping Systems.
    - ASME IX Qualification Standard for Welding and Brazing Procedures, Welders, Brazers, and Welding and Brazing Operators.
    - ASME VIII Boiler and Pressure Vessel Code.
  - Section II Materials:
    - Part A – Ferrous Material Specifications.
    - Part B – Nonferrous Material Specifications.
    - Part C – Specifications for Welding Rods, Electrodes and Filler Metals.
    - Section V: Non Destructive Examination.
    - Section VIII: Division 1, Rules for Construction of Pressure Vessels.
    - Section IX: Welding and Brazing Qualifications.
  - National Board:
    - NB-23 National Board Inspection Code.
  - ASNT:
    - SNT-TC-1A Personnel Qualification and Certification in Non-destructive Testing.