

API 570 PIPING INSPECTOR (Certification Preparation Program)

Course Date:	To Be Determine with Benefeciary
Course Overview:	This is an intensive 10 days training course to provide a comprehensive understanding of the design, inspection and maintenance of process piping based on API 570 standards. It aims to provide the oil, gas and petrochemical industries with the assurance that piping inspectors have been trained under this internationally recognized program to have the required knowledge and experience for inspection of in-service process pressure. Course participants aspiring to be certified by API will get well versed with the various code books and standards to be prepared for the API 570 examination.
Course Objectives:	The course provides participants with the knowledge necessary to: <ul style="list-style-type: none"> ✓ Successfully pass the API 570 Process Piping Inspector certification exam ✓ Effectively use major codes: ASME B&PV & Sections V, 31.3, 16.5& IX ✓ Perform all basic piping calculations needed for the API exam (e.g. tmin, test pressure, MAWP, MDMT, corrosion rates, remaining life, etc.) ✓ Use API's requirements during inspection, repairs, and alterations of process piping ✓ Review welding procedures (WPS/PQR) and welder performance qualifications (WPQ)
Who should attend?	The Course is designed for Piping Inspection Engineers, Inspection Personnel, Operating Engineers, Managers, Maintenance Engineers and personnel involved in design, operation, inspection and maintenance of process piping. This course will also be beneficial to those who are preparing themselves for the API 570 certification examination.
Training Outline:	<p>DAY 1</p> <ol style="list-style-type: none"> 1) Welcome & Introduction 2) ASME B16.5 – Flange Code Learn how to determine: <ul style="list-style-type: none"> <input type="checkbox"/> Maximum Flange Pressure <input type="checkbox"/> Maximum Flange Temperature <input type="checkbox"/> Appropriate Flange Class <input type="checkbox"/> Maximum Hydrotest Pressure <input type="checkbox"/> Flange Dimensions <input type="checkbox"/> Maximum allowed Flaw Size on Flange Face 3) API 570 Sections 1-4, 6 <ul style="list-style-type: none"> <input type="checkbox"/> Purpose of API 570 <input type="checkbox"/> Scope of API 570 <input type="checkbox"/> Responsibilities defined in API 570 <input type="checkbox"/> Inspection Types & Intervals <input type="checkbox"/> Tips on how to memorize information in API Codes <p>DAY 2</p> <ol style="list-style-type: none"> 1) ASME B31.3 - Piping Code Includes understanding: <ul style="list-style-type: none"> <input type="checkbox"/> Purpose & Scope of the Code

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	<ul style="list-style-type: none"> <input type="checkbox"/> Organization of the Code <input type="checkbox"/> Piping Classes specified by the Code <input type="checkbox"/> Roles specified by the Code <input type="checkbox"/> Tips on how to find information in the Code <p>DAY 3</p> <p>1) ASME B31.3 – Calculations & Charts Learn how to determine:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Quality Factor – “E” <input type="checkbox"/> Allowable Stress – “S” <input type="checkbox"/> Minimum Thickness for a Pipe <input type="checkbox"/> Appropriate Pipe Schedule for new Pipe <input type="checkbox"/> Minimum Thickness for a Blank (Blind) <p>2) API 570 – Section 7</p> <ul style="list-style-type: none"> <input type="checkbox"/> Inspection Data Evaluation <input type="checkbox"/> Calculate MAWP of a Piping System <p>DAY 4</p> <p>1) ASME B31.3 - Piping Code Includes understanding:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Basic concepts of Piping Flexibility <input type="checkbox"/> Selection of Piping Materials <input type="checkbox"/> Fabrication Requirements <p>2) ASME B31.3 – Calculations & Charts Learn how to determine:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Thermal Pipe Growth <input type="checkbox"/> Minimum Design Temperatures <input type="checkbox"/> Welding Preheat Requirements <input type="checkbox"/> PWHT Requirements <p>3) API 570 – Section 8-9</p> <ul style="list-style-type: none"> <input type="checkbox"/> Repairs, Alterations & Rerating <input type="checkbox"/> Underground Piping <p>DAY 5</p> <p>1) ASME B&PV Section IX - Welding Code:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Purpose of the Code <input type="checkbox"/> Roles of the Welding Inspector <input type="checkbox"/> Organization of the Code <input type="checkbox"/> Welding Positions – Test and Field <input type="checkbox"/> Testing Requirements and Acceptance Criteria <input type="checkbox"/> Welder Qualification Process and Restrictions <input type="checkbox"/> Tips on how to find information in the Code <p>2) ASME B&PV Section IX Review and Evaluate a WPQ Understand:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Essential Variables for welder qualification <input type="checkbox"/> Testing required for welder qualification <p>DAY 6</p> <p>1) ASME B&PV Section IX - Welding Code Understand the concepts:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Weld Procedure Qualification Process and Restrictions <p>2) WPS/PQR Review (Weld Procedure)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Evaluate a WPS with the associated PQR
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	<p>DAY 7</p> <p>1) API 570 – Section 8 & 9</p> <ul style="list-style-type: none"> <input type="checkbox"/> Repairs, Alterations & Rerating <input type="checkbox"/> Underground Piping <p>2) API 577 – Welding Inspection & Metallurgy</p> <p>DAY 8</p> <p>1) ASME B&PV Section V – NDE Understand the following key concepts:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Purpose of the Code <input type="checkbox"/> Organization of the Code <input type="checkbox"/> RT Techniques <input type="checkbox"/> Purpose & Selection of IQI's <input type="checkbox"/> RT Film Density Requirements <input type="checkbox"/> Key terms discussed in the Code <input type="checkbox"/> Tips on how to find information in the Code <p>DAY 9</p> <p>1) API 570 Section 5</p> <ul style="list-style-type: none"> <input type="checkbox"/> Inspection & Testing Practices <p>2) API 571 - Damage Mechanisms in the Refinery Industry</p> <p>DAY 10</p> <p>1) Course Review</p> <p>2) Practice Exam – Exam is similar to the API 570 exam</p>
<p>Training Methodology</p>	<p>Work Shop</p>

Duration: 10Days **Venue:** Jubail

Time: 08:30 AM -05:30 PM **Numbers of hours:** 80 Hours

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