NDT, Nondestructive Testing Technology, Certificate of Technology

Program Information
Nondestructive Testing (NDT) and Inspection is a fast-growing, diverse, high-paying industry. We do more than train you for a job, we prepare you for a career!

Our program offers students the training needed to enter the inspection and quality industry and the hours required for certification; with training that conforms to ASNT - American Society of Nondestructive Testing SNT-TC-1A Level II.

We offer a one-year Certificate of Technology, and a second year of advanced courses to earn an Associate of Applied Science degree or Level 2 certificate. Courses are offered in the evenings and on Saturdays to accommodate your work schedule.

Job opportunities are diverse, so pick your industry. Graduates may work in industries such as: petrochemical, oil and gas, fabrication, welding, pipeline, turbines, aerospace, and more.

Courses in the program include Nondestructive Testing, Weld Inspection, Metallurgy, Quality, Metrology, and Codes.

Test Methods
Ultrasonic Testing
Phased Array Ultrasonics
Eddy Current Testing
Liquid Penetrant Testing
Magnetic Particle Testing
Visual Inspection
Radiographic Film Interpretation
Metrology
Metallurgy Testing: Charpy, Tensile, Hardness and PMI
Welding Inspection
Pressure Vessel Inspection

Career Opportunities
Graduates of San Jacinto College's NDT technology program may find employment as:

- NDT Technician in: VT, PT, MT, UT, ET, RFI
- UT Flaw Sizing and Phased Array Inspector
- AWS - Certified Welding Inspector (CWI)
- API Inspector - API 510, API 570
- Quality Technician, Inspector or Manager
- Metallurgical, Corrosion or Coating Technician

Earning Potential
Wages are based upon experience, skill level, testing method and a synergy of multiple certifications.

Average Wages Per Year:
Non-Destructive Testing Specialist (median): $59,556 per year
NDT Level I $57,807
NDT Level II $83,739
NDT Level III $103,991
Certified Welding Inspector $64,084
Quality Inspector $49,694
API 510 Pressure Vessels Inspector $86,211
API 570 Piping Inspector $72,347

For additional information contact 281-478-2799.

Campus
Central Campus

Information
Students pursuing the nondestructive testing program courses can earn the technical training necessary to begin working in the testing and inspection field.

San Jacinto College offers classroom training in:

- VT - Visual Inspection,
- MT - Magnetic Particle Testing,
- PT - Liquid Penetrant Testing,

San Jacinto College 2019-2020
• UT - Ultrasonic Testing, and
• Radiographic Film Interpretation,

in conformance to the American Society for Nondestructive Testing SNT-TC-1A guidelines.

Additional coursework in: Standards, Metallurgy, and Metrology provide the foundations needed for adaptability in the workplace.

The training prepares students for entry-level work in Nondestructive Testing.

**Admission**

No admission requirements.

Job entry requirements:

• Pass a drug test on a regular basis.
• Pass a criminal background check.¹
• Some career paths require a TWIC Card.
• Some career paths require a good driving record.

¹ Requirement varies based on type of offense and years since the offense, or the requirements of the facility where the work is being performed.

**Plan of Study**

Central Campus
4WLD-NDT

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Term</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QCTC 1446</td>
<td>Testing and Inspection Systems</td>
<td>4</td>
</tr>
<tr>
<td>NDTE 1410</td>
<td>Liquid Penetrant, Magnetic Particle and Visual Testing: Level 1 &amp; 2</td>
<td>4</td>
</tr>
<tr>
<td>NDTE 1405</td>
<td>Introduction to Ultrasonics: Level 1 &amp; 2</td>
<td>4</td>
</tr>
<tr>
<td>METL 1313</td>
<td>Introduction to Corrosion</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Credits</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Second Term</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WLDG 1437</td>
<td>Introduction to Welding Metallurgy</td>
<td>4</td>
</tr>
<tr>
<td>QCTC 2331</td>
<td>Standards and Codes</td>
<td>3</td>
</tr>
<tr>
<td>NDTE 1301</td>
<td>Film Interpretation of Weldments</td>
<td>3</td>
</tr>
<tr>
<td>QCTC 1448</td>
<td>Metrology and Prints</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Credits</strong></td>
<td><strong>14</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>29</strong></td>
</tr>
</tbody>
</table>

**Capstone Experience**: QCTC 2331 Standards and Codes

¹ May use ENGL 1302 Composition II or ENGL 2311 Technical and Business Writing if transferring to a baccalaureate program. Students who have successfully completed ENGL 1302 Composition II or ENGL 2311 Technical and Business Writing may receive credit for ETWR 1302 Introduction to Technical Writing.