NDT, NONDESTRUCTIVE TESTING TECHNOLOGY, LEVEL 2 CERTIFICATE

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 ¹
NDT Level I $57,807²
NDT Level II $83,739²
NDT Level III $103,991²
Certified Welding Inspector $64,084³
Quality Inspector $49,694⁴
API 510 Pressure Vessels Inspector $86,211⁵
API 570 Piping Inspector $72,347⁵

² PQNDT
³ American Welding Society Payscale, 2018
⁴ ASQ QP Fall 2017 Salary Survey
⁵ American Petroleum Institute Payscale, 2018

For additional information contact 281-478-2799.

Campus
Central Campus

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.
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

5WLD-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><strong>Credits</strong></td>
<td></td>
<td>15</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><strong>Credits</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Third Term</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NDTE 1454</td>
<td>Intermediate Ultrasonics: Flaw Detection and Sizing</td>
<td>4</td>
</tr>
<tr>
<td>NDTE 1440</td>
<td>Eddy Current Testing</td>
<td>4</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td><strong>Fourth Term</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WLDG 2455</td>
<td>Advanced Metallurgy</td>
<td>4</td>
</tr>
<tr>
<td>NDTE 2401</td>
<td>Advanced Ultrasonics: Phased Array and A.U.T.</td>
<td>4</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>45</td>
</tr>
</tbody>
</table>

**Capstone Experience:** NDTE 2401 Advanced Ultrasonics: Phased Array and A.U.T.

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.