NDT, NONDESTRUCTIVE TESTING TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE

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 (AAS) 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

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

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.

Career Opportunities
Graduates of San Jacinto College's NDT technology program may find employment as:
- NDT Technicians in: VT, PT, MT, UT, ET, RFI;
- UT Flaw Sizing and Phased Array Inspectors;
- AWS - Certified Welding Inspectors (CWI);
- API Inspectors - API 510, API 570;
- Quality Technicians, Inspectors, or Managers; and
- Metallurgical, Corrosion, or Coating Technicians.

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

San Jacinto College offers classroom training in:
- VT - Visual Inspection,
- MT - Magnetic Particle Testing,
- PT - Liquid Penetrant Testing,
- UT - Ultrasonic Testing,

San Jacinto College 2019-2020
- ET - Eddy Current Testing, and
- RFI - Radiographic Film Interpretation,
in conformance to the American Society for Nondestructive Testing SNT-TC-1A guidelines.

Additional coursework in: Standards, Metallurgy, Metrology, and Advanced Ultrasonics provide the foundations needed for the diversity and adaptability of skills needed in the workplace.

This training prepares students for entry-level work in Nondestructive Testing, Inspection and Quality careers in such industries as: petrochemical, fabrication, maintenance, construction, turbine and aviation, machining, metal working, quality labs and metallurgical testing.

Admission
No admission requirements.

Job entry requirements:
- Pass a drug test on a regular basis;
- Pass a criminal background check;
- Some career paths require a TWIC Card; and
- Some career paths require a good driving record.

1 Requirements vary 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
3WLD-NDT

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>First Term</strong></td>
<td></td>
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<tr>
<td>QCTC 1446</td>
<td>Testing and Inspection Systems</td>
<td>4</td>
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<td>NDTE 1410</td>
<td>Liquid Penetrant, Magnetic Particle and Visual Testing: Level 1 &amp; 2</td>
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<td>NDTE 1405</td>
<td>Introduction to Ultrasonics: Level 1 &amp; 2</td>
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<td>METL 1313</td>
<td>Introduction to Corrosion</td>
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<td><strong>Credits</strong></td>
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<td><strong>Second Term</strong></td>
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<td>WLDG 1437</td>
<td>Introduction to Welding Metallurgy</td>
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<td>QCTC 2331</td>
<td>Standards and Codes</td>
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<td>QCTC 1448</td>
<td>Metrology and Prints</td>
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<td>Speech</td>
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<td><strong>Summer Year One Term</strong></td>
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<td>NDTE 1301</td>
<td>Film Interpretation of Weldments</td>
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<td><strong>Credits</strong></td>
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<td><strong>Third Term</strong></td>
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<td>NDTE 1454</td>
<td>Intermediate Ultrasonics: Flaw Detection and Sizing</td>
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<td>NDTE 1440</td>
<td>Eddy Current Testing</td>
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<tr>
<td>MATH 1332 or MATH 1314</td>
<td>Contemporary Mathematics (Quantitative Reasoning) (or higher)</td>
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<tr>
<td>or College Algebra</td>
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<td><strong>Fourth Term</strong></td>
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<tr>
<td>WLDG 2455</td>
<td>Advanced Metallurgy</td>
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<td>NDTE 2401</td>
<td>Advanced Ultrasonics: Phased Array and A.U.T.</td>
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<td>ENGL 1301</td>
<td>Composition I</td>
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<td>Social and Behavioral Sciences or Government/Political Science or American History</td>
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<td><strong>Total Credits</strong></td>
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Capstone Experience: NDTE 2401 Advanced Ultrasonics: Phased Array and A.U.T.

1 May use MATH 1314 College Algebra College Algebra or higher if transferring to a baccalaureate program.