

INSPECTION TECHNOLOGIES, NONDESTRUCTIVE TESTING TECHNOLOGY, CERTIFICATE OF TECHNOLOGY



Program Information

A career in Inspection and Testing covers many methods, both destructive and nondestructive. The Inspection Technologies program at San Jacinto College allows you to follow your career path with traditional Nondestructive Testing (NDT) methods or the Inspection of Fixed Equipment such as Pressure Vessels, Piping, Valves, and Metallurgical testing.

These careers are in high demand and pay according to the skill level you attain through education and experience. These skill levels require the type of training you can receive through the Inspection Technologies program at San Jacinto College. Job opportunities are diverse, so pick your industry or career path. Graduates may work in industries such as: petrochemical, oil and gas, fabrication, welding, pipeline, turbines, aerospace, and more.

San Jacinto College offers a one-year Certificate of Technology, a second year of advanced courses to earn an Associate of Applied Science (AAS) degree, or Level 2 Certificate paths for year 2, in two career paths: Nondestructive Testing (NDT) or Fixed Equipment Inspection. The program offers courses in the evenings and on Saturdays to accommodate your work schedule.

We provide the education to follow certification paths through: the American Society for Nondestructive Testing (ASNT), the American Petroleum Institute (API), the American Welding Society (AWS), and the National Association of Corrosion Engineers (NACE) International.

Test Methods

Ultrasonic Testing (UT)

Phased Array Ultrasonics (PAUT)

Eddy Current Testing (ET)

Liquid Penetrant Testing (PT)

Magnetic Particle Testing (MT)

Visual Inspection (VT)

Radiographic Film Interpretation (RFI)

Metrology and Prints

Metallurgy Testing: Charpy, Tensile, Hardness and PMI

Corrosion Inspection

Welding Inspection (CWI)

Pressure Vessel Inspection

Piping and Valve Inspection

Career Opportunities

Graduates of San Jacinto College's Inspection Technologies program may find employment as:

- NDT Technicians in: VT, PT, MT, UT, ET, and RFI;
- UT Flaw Sizing and Phased Array Inspectors PAUT;
- AWS - Certified Welding Inspectors (CWI);
- API Inspectors - API 510, API 570, API 577/578;
- 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.

Median Wages Per Year:

NDT Level I \$74,392¹

NDT Level II \$104,931¹

NDT Level III \$130,096¹

Certified Welding Inspector \$124,797¹

API Inspector \$150,703¹

¹ Personnel for Quality and Nondestructive Testing (PQNNT) Salary Survey, 2019, for South Central Region (Texas, Louisiana, Oklahoma, New Mexico, Arkansas, and Missouri) [most recent data]

For additional information, students may contact the Department Chair Joseph Zwiercan at 281-478-2799 or 281-998-6150 x1352

or the Program Director, Stephen Rowland at 281-998-6150 x1689.

Campus

Central Campus