

2018-2019

SOUTHEAST  
COMMUNITY  
COLLEGE  
NEBRASKA

# NONDESTRUCTIVE TESTING TECHNOLOGY

Associate of  
Applied Science  
Degree

MILFORD CAMPUS

[www.southeast.edu/NondestructiveTestingTech](http://www.southeast.edu/NondestructiveTestingTech)



*Nondestructive testing is examining an object without destroying its usefulness. Our Nondestructive Testing Technology program is one of a few programs of its kind in the United States. We train students to examine products and materials for flaws without damaging the products. Graduates take pride in knowing they are doing something to keep our world safe. Jobs can be found in many industries, including aerospace, power generation and utilities, chemical and petrochemical, defense and military (civilian and enlisted), general manufacturing, and transportation.*

## Program Overview:

The program is located on the Milford Campus and includes classroom instruction and hands-on training. Students will gain fundamental experience utilizing liquid penetrant, magnetic particle, ultrasonic, radiographic, Eddy current, and visual inspection techniques while gaining advanced skills later on in computer-based NDT applications. In addition, skills in blueprint reading and CAD, metallurgy and manufacturing processes also are acquired.

The program meets or exceeds the American Society for Nondestructive Testing SNT-TC-1A requirements in each of the NDT disciplines. In addition, students will complete radiation safety and Hazmat training in accordance with state and federal requirements. The curriculum focuses on current industry practices and procedures associated with a wide variety of inspection applications as related to the various industries served.

## Types of jobs available:

- NDT Technician
- NDT Inspector
- Sales and Marketing Specialist
- NDT Engineer
- Research and Development Specialist
- Contractor
- Business Owner



## Graduate Earnings

Recent graduates report an average starting wage of \$20.50 per hour.

## For more information contact:

Randy Walbridge, Program Chair  
402-761-8346, 800-933-7223 ext. 8346  
[rwalbrid@southeast.edu](mailto:rwalbrid@southeast.edu)

or the College Admissions Office  
Milford 402-761-8243, 800-933-7223 ext. 8243

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## General Education Requirements:

Contact your program advisor to select general education courses from each category which will meet your program's graduation requirements. See the General Education pages online for a complete list.

(One class from each area below).

Oral Communications	4.5
Written Communications	4.5
Analytical, Quantitative, and Scientific Reasoning	4.5
MATH1050 or higher (Recommended) (with a grade of C or higher)	

(Plus one class from one area below:)

Global Awareness and Citizenship	
Career and Life Skills	4.5

In addition students must complete the following course:

Critical Thinking & Problem Solving	4.5
PHYS1017 Technical Physics or	
PHYS1150 Descriptive Physics	

**22.5 hours**

Listed are the courses necessary for a full-time student to complete an A.A.S. degree in Nondestructive Testing Technology. Students must attain a grade of "C" or higher in all NDTT courses to receive an A.A.S. degree.

## Required NDTT Courses:

Course #	Course title	Credit hrs
NDTT1121	Visual Inspection Methods	6.0
NDTT1133	Manufacturing Processes	5.0
NDTT1164	Blueprint Reading & CAD	4.0
NDTT1236	Electrical & Electronic Fundamentals	5.0
NDTT1263	Metallurgy	6.5
NDTT1356	Liquid Penetrant	3.0
NDTT1360	Ultrasonics I	7.5
NDTT1450	Eddy Current I	6.0
NDTT1458	Magnetic Particle	3.0
NDTT1464	Radiography I	6.0
NDTT1470	Radiation Safety & Administration	6.5
NDTT2569	Radiography II & Film Interpretation	7.5
NDTT2570	Eddy Current II	6.0
NDTT2652	Ultrasonics II	8.0
NDTT2679	Code Interpretation & Procedure Development	6.0
WELD1191	GMAW and SMAW Industrial	3.0

**89 hours**

## Estimated Expenses

Nebraska Resident tuition/fee rate is \$69.50 per credit hour. Out-of-state tuition/fee rate is \$83.50 per credit hour. Graduation fee is \$25.

Housing is available at Beatrice and Milford campuses only. Tuition, books and fees are dependent upon classes taken each quarter.

Students should plan a budget that includes room, meals, clothing, laundry, medical care, recreation and entertainment, transportation, insurance, etc.

FIRST QUARTER		FOURTH QUARTER	
Tuition And Fees	\$1,355	Tuition And Fees	\$1,147
Books	1175	Books	810
Tools/Supplies (Kit)	270	<b>Total</b>	<b>\$1,957</b>
<b>Total</b>	<b>\$2,800</b>		
SECOND QUARTER		FIFTH QUARTER	
Tuition And Fees	\$1,425	Tuition And Fees	\$1,251
Books	545	Books	630
<b>Total</b>	<b>\$1,970</b>	<b>Total</b>	<b>\$1,881</b>
THIRD QUARTER		SIXTH QUARTER	
Tuition And Fees	\$1,286	Tuition And Fees	\$1,286
Books	495	Books	910
<b>Total</b>	<b>\$1,781</b>	<b>Total</b>	<b>\$2,196</b>
		<b>Total Estimate For Program</b>	<b>\$12,585</b>

## Basic Tools for Program

\*May be purchased at the Campus Store. A 10 percent discount will be given at the Store if the following items are purchased as a complete set.

- \* Sharp 506 Calculator, or equivalent scientific calculator
- \* Pocket Pen Light w/Batteries
- \* Fillet Gage
- \* V-Wac Gage
- \* 6" Steel Rule
- \* 1/4" Graph Pad
- \* 8" Pliers
- \* 12" Tape Measure
- \* #81 Circle Template
- \* Set of French Curves
- \* VIS-A-VIS Overhead Projector Pen (pkg. of 4)
- Flash Drive Computer Disk (minimum of 2 GB)
- Large Circle Template
- \* Safety Glasses (must meet Z87 specs.)
- \* Watch/Stopwatch (capable of measuring time in seconds)
- \* Protractor - Alvin No. 375 or equivalent
- \* 0-1" Micrometer, Vernier Scale (not digital)
- (2) Hexalon Lead Screens .005"
- (2) Hexalon Lead Screens .010"
- (2) NDR Flexible Cassette
- UT Slide Rule
- 6" Screwdriver - Standard Blade
- Small Phillips Screwdriver
- Sharpie Permanent Marker
- Illuminated Magnifying Lens (10x)

### Not included in kit:

- \* Leather Welding Gloves

