

Program Description

The certificate program includes course work to help students prepare for the non-destructive inspection level I and level II certifications. Please note, students will have to complete the required number of work experience hours for level I and level II certifications outside the classroom instruction.

Students must receive a minimum grade of “C” or better in all required core courses and the specific courses listed as program electives in order to qualify for the degree or certificate.

Staff

Please dial (661) 722-6300, then the 4 digit extension.

Division:

Greg Bormann, Dean	x.6327
Mari-Ali Baiza, Administrative Assistant	x.6327
Leyla Recinos, Clerical Assistant III	x.6327
Dr. Maria Clinton, Department Chair	x.6577

Faculty:

Jack B. Halliday	x.6289
------------------	--------

Instructional Assistant:

Tiffani Zinner	6049
Susanna Otis	6872

Adjunct Faculty:

Vacant	V.M.
--------	------

Career Options

Inspector	HSC Quality Technician Engineering Technician Aerospace Test Engineer
Nondestructive Testing Technician	
Quality Assurance Inspector	
Aircraft Quality Control Inspector	

(Careers may require education beyond the two-year college level.)

Program Learning Outcomes

Aeronautical Non-Destructive Inspection

1. Analyze and evaluate critical aspects of non-destructive inspection as it pertains to the aerospace manufacturing industry, which includes aspects related to safe work practices, standards and tolerances, standard shop practices, proper use of tools, equipment, operating systems, and personal protective equipment.
2. Inspect, analyze, evaluate, and troubleshoot, aerospace manufacturing defects, flaws, and damage as it relates to the proper methods of identifying and setting up correct inspection equipment and inspection methods.

Certificate Program

Aeronautical Non-Destructive Inspection

This program is designed to introduce students to the principles of nondestructive inspection (NDI) and nondestructive testing (NDT). Non-destructive testing (NDT) is a testing and analysis technique used by the aerospace industry to evaluate the properties of a material, component, and structure for characteristic differences without causing damage to the aircraft structures. Inspection methods covered in this course are Eddy Current and Ultrasonic inspection. Classroom lecture and hands-on practice with NDI testing equipment, processes, and procedures.

Required Courses (10 units):

ANDI 110, Non Destructive Inspection: Visual Inspection, Liquid Penetrant, and Magnetic Particle	4
ANDI 115, Non Destructive Inspection: Eddy Current and Ultrasound Inspection	6
Total 10	

Aeronautical Non-Destructive Inspection

ANDI 110 NON DESTRUCTIVE INSPECTION: VISUAL INSPECTION, LIQUID PENETRANT, AND MAGNETIC PARTICLE

*5 units
5 hours weekly*

This course is designed to introduce students to the principles of nondestructive inspection (NDI) and nondestructive testing (NDT). Non-destructive testing (NDT) is a testing and analysis technique used by the aerospace industry to evaluate the properties of a material, component, and structure for characteristic differences or welding defects without causing damage to the aircraft structures. Inspection methods covered in this course are Visual Inspection, Dye Penetrant and Magnetic Particle inspection. Classroom lecture and hands-on practice with NDI testing equipment, processes, and procedures. (AVC)

ANDI 115 NON DESTRUCTIVE INSPECTION: EDDY CURRENT AND ULTRASOUND INSPECTION

*6.25 units
9 weekly hours [5 lecture, 4 lab]*

Prerequisite: *Completion of ANDI110.*

This course is designed to introduce students to the principles of nondestructive inspection (NDI) and nondestructive testing (NDT). Non-destructive testing (NDT) is a testing and analysis technique used by the aerospace industry to evaluate the properties of a material, component, and structure for characteristic differences without causing damage to the aircraft structures. Inspection methods covered in this course are Eddy Current and Ultrasonic inspection. Classroom lecture and hands-on practice with NDI testing equipment, processes, and procedures. (AVC)