



MONROE COUNTY
COMMUNITY COLLEGE

Course Outcome Summary

Standard Course

WELD-130 Introduction to Non-Destructive Testing

Course Information

Division	ASET
Contact Hours	45
Theory	45
Total Credits	3

Prerequisites **RDG 090 and ENGL 090 or qualifying score on accepted placement tests**

Course Description

Non-Destructive Testing (NDT) is a process that involves testing or evaluation of materials, components and assemblies for material discontinuities and properties without impairing or destroying the parts serviceability. This is an introductory course that will cover the concepts of the five major inspection methods studied through the Monroe County Community College NDT program: Visual Testing (VT), Liquid Penetrant Testing (PT), Magnetic Particle Testing (MT), Ultrasonic Testing (UT) and Radiographic Testing (RT). Through course progression, the student will become with the scope and limitations of each method, as well as develop a deeper understanding of how Non-Destructive Testing impacts the world in which we live.

Course Outcomes

In order to evidence success in this course, students will be able to:

1. Perform inspection techniques and learn the process variables unique to the five major inspection methods.
2. Apply principles of basic material types and forms applicable to NDT.
3. Recognize the advantages and limitations of each NDT method.
4. Practice safe techniques for each NDT inspection technique.
5. Identify unethical behavior.
6. Demonstrate proficiency of applicable NDT standards.

Date Updated: March 3, 2022
By: Mark A. Jager, PC 3/12/2022