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 of 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.

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