



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Non-Destructive Testing
Course Number: AIT103

Required Materials

Textbook(s): Introduction to NDT , Curtis Evans ISBN 978-1-57117-441-3
Required Readings: None
Additional Materials: Note taking materials

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

| Week | Chapter/Topic/Lab |
|---------|---|
| Week 1 | Introduction / Syllabus, Introduction to Non-Destructive Testing, Welding Defects, Quiz 1 |
| Week 2 | Properties of Metals, Destructive Testing, Quiz 2 |
| Week 3 | Types of Non-Destructive Testing Inspection, Quiz 3 |
| Week 5 | Visual Inspection LAB, Quiz 4 |
| Week 7 | Liquid Penetrant Testing |
| Week 8 | Liquid Penetrant Lab, Quiz 6 |
| Week 9 | Eddy Current Testing Inspection, Acoustic Emission Testing Inspection, Quiz 7 |
| Week 10 | Magnetic Particle Testing Inspection |
| Week 11 | Magnetic Particle Lab, Quiz 8 |
| Week 12 | Ferrite Testing Inspection, Hydrostatic Testing Inspection, Quiz 10 |
| Week 13 | Ultrasonic Testing Inspection |
| Week 14 | Ultrasonic Testing Inspection, Quiz 11 |
| Week 15 | Essay Presentation, Final Review |
| Week 16 | Final Exam |