

**Eastern WV Community & Technical College
Master Course Record**

Course Prefix and Number: WTT 230
Course Title: Supervisory Control and Data Acquisition
Recommended Transcript Title: Supervisory Control and Data Acquisition
Date Approved/Revised: 10/21/15; 11/6/17
Credit Hours: 4 Contact hours per week (Based on 15 week term): Lecture: 3 Lab: 3
Prerequisite: WTT 210 or permission from the instructor Corequisite: Pre/Corequisite:
Grading Mode: Letter Grade
Catalog Description: This course provides hands-on experience working with industrial data communications hardware found in a commercial wind farm. Supervisory Control and Data Acquisition (SCADA) systems in the wind industry will be used to practice maintenance and operational tasks.
Course Outcomes: Students should learn to: 1. Describe SCADA systems in industrial/wind businesses 2. Identify network cables and cabling systems utilized in industry 3. Describe SCADA functionality in systems 4. Understand PLC control of SCADA systems in industrial environments 5. Understand communications systems utilized in industry 6. Utilize critical thinking skills to analyze systems
Implementation Cycle: Spring
Role in College Curriculum: (Check all that apply) <input type="checkbox"/> General Education Core (Specify category) <input checked="" type="checkbox"/> Technical Core: Wind Energy Technology, AAS <input type="checkbox"/> Restricted Elective (Specify Program) <input type="checkbox"/> General Elective <input type="checkbox"/> Other (Please specify)
Course Fee: Yes
Instructor's Qualifications: Bachelor's Degree in engineering, related technical field, or industry recognized qualifications.
Expanded Course Description: This course provides hands-on experience working with industrial data communications hardware and software found on a commercial wind farm. Supervisory Control and Data Acquisition (SCADA) systems in the wind industry will be used to practice development, operational, and maintenance tasks.

Prepared by: Skip Landes, 05/25/15

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Date Prepared/Revised: 5/25/15; 11/6/17

Date Course Approved by Curriculum Committee: 11/6/17

Date Course Approved by LCC: 11/15/10; 09/21/15; 11/20/17

Form revised 11/16/09

Eric Putze, Advanced Technology/Wind Energy Faculty, 11/6/17

Approved by: Robert Eagle (SB-G) Dean, Academic and Student Services; 11-15-10;
09/21/15

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