Fond du Lac Tribal and Community College COURSE OUTLINE FORM

01/21/16

Please return this form to the college vice president of academic affairs and the chairperson of the Academic Affairs and Standards Council (AASC)

1. Prepared by:	
2. Date submitted:	
3. Date approved: 4/6/17	Date revised
4. Department/discipline: <u>Electr</u>	ic Utility Technology
5. Department(s) endorsement(s):_ (Signatures of the person(s) providi	
	ems s or less):
7. Course Designator: <u>EUT</u>	
9. Number of Credits: Lecture 1	
10. Control Number (on site) 28 Lec	cture/14 Lab Control Number (online)
11. Catalog/Course description:	
electro pneumatics components. C	damentals of machine control utilizing pneumatics and Concentrates on pneumatic systems, control devices and ol and interfacing of air and electrical circuits.
12. Course prerequisite(s) or co-requisite(s): Co-requisite:	site(s): Accuplacer scores/ Other courses
	d course materials and resources. List all that apply, e.g. es, lab manuals, videos, guest lecturers).
Pneumatic trainers, Programmable annually and listed in syllabus.	e Logic Controllers and computers, texts to be determined
14. Course Content (Provide an outli	ne of major topics covered in course)
Topics include:	
Proper safety procedures, Basic laws of fluid mechanics Standard symbols, pumps, Control valves, Control assemblies, Actuators, Maintenance procedures,	,

15. Learning Goals, Outcomes, and Assessment

At FDLTCC we have 4 Competencies Across the Curriculum (CAC) areas. They are as follows:

- A. Information Literacy (the ability to use print and/or non-print tools effectively for the discovery, acquisition, and evaluation of information)
- B. Ability to Communicate (the ability to listen, read, comprehend, and/or deliver information in a variety of formats.)
- C. Problem Solving (the ability to conceptualize, apply, analyze, synthesize, and/or evaluate information to formulate and solve problems.)
- D. Culture (knowledge of Anishinaabe traditions and culture, knowledge of one's own traditions and culture, knowledge of others' traditions and cultures, culture of work, culture of academic disciplines and/or respect for global diversity.)

Course Learning Outcomes will fulfill the identified competencies.

Course Learning Outcomes.

Upon completion of this course the student will be able to:

- 1.) Work safely with pneumatic fluid power systems. A, D
- 2.) Identify the basic schematic symbols related to pneumatic devices. A,
- 3.) Utilize logic systems to recognize a problem, develop and implement solution. A, B, C
- 4.) Identify and use pumps and compressors A,
- 5.) Identify and use directional control valves and pneumatic actuators. A,
- 6.) Verbally presentation of lab results. B, C
- 16. **Minnesota Transfer Curriculum (MnTC):** If this course fulfills an MnTC goal area, state the goal area and list the goals and outcomes below:

See www.mntransfer.org	
Goal Area(s):	
Does this course require additional material for specific program requirements? If yes, please provide.	01/21/16