

Minnesota  
Articulated College Credit (ACC) Agreement  
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**Agreement Name:**            **Hydraulic Components Lab**

**Agreement Last Reviewed:** September 2017

**Next Review Date:**            September 2019

**Curriculum Content Objectives:**

1. Identify common fluid conductors, connectors, and fluids.
2. Demonstrate an understanding of pressure and flow versus pressure drop on the test stand.
3. Evaluate simple circuits for an understanding of pressure controls.
4. Evaluate simple circuits for an understanding of flow controls.
5. Evaluate simple circuits for an understanding of industrial directional controls.
6. Evaluate simple circuits for an understanding of mobile directional controls.
7. Evaluate various pumps.
8. Document test data and provide written test reports throughout the semester showing an understanding of the evaluation of the above data.
9. Set-up and demonstrate progressively difficult circuits.

**LEARNING OUTCOMES (General)**

1. The learner will demonstrate an understanding of pressure and flow control valves.
2. The learner will demonstrate an understanding of directional control valves.
3. The learner will demonstrate an understanding of pumps and actuators.

**Assessments:**

Students must achieve no less than 80% or B for a final grade in the high school course to receive ACC.

**ACC Concept:**

Skills for selected courses required for graduation in programs at the colleges participating in this regional agreement are taught in our schools using the assessments developed collaboratively by secondary and post-secondary staff. High School credit is earned and college credits are earned if the student meets the college achievement.