Course Objectives/Course Outline
Spokane Community College

Course Title: **Programmable Controller Integration**
Prefix and Course Number: **ELMT 268**

Course Learning Outcomes:
By the end of this course, a student should be able to:

- Describe the process controllers and control devices function.
- Test and adjust analog scaling values per field conditions.
- Explain applications and implementation of process controls.
- Identify communication network types.
- Apply communication networks for industrial control.
- Demonstrate how operator interface devices function and communicate.
- Install and configure Allen-Bradley RSView software
- Develop and modify RSView tag and screen displays.

Course Outline
I.   Process control and Data Acquisition
     A. Types of Processes
     B. Structure of Control Systems
     C. Controllers and Interface Devices
II. PLC Networking Basics
     A. Network Basics
     B. Network Types Used
     C. Network communications
III. Human Machine Interfaces and PLC Integration
     A. Operator Interfaces
     B. Allen-Bradley RSView Overview
     C. RSView Installation and Runtime configurations