



CATALOG DESCRIPTION

Instruction in a **systematic method of** troubleshooting used to solve process problems. Topics include **abnormal situations, the use of instrumentation in troubleshooting**, application of data collection and analysis, cause-effect relationships, and reasoning. The student will explain steps in troubleshooting models; demonstrate the use of troubleshooting tools; and apply troubleshooting techniques to process problems.

Prerequisites: **IPOP 2650**

Semester Offered: All

Common Student Learning Outcomes

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...

BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

Course Learning Outcomes

Upon successful completion of the course, the student will be able to...

1. **Define abnormal situations and list conditions which can cause them**
2. **Identify back-up systems for dealing with various abnormal situations**
3. **Identify troubleshooting tools and steps presented in this class and be able to apply them to troubleshooting scenarios**
4. **Understand process variables and instrumentation as it pertains to the student interface with various processes**
5. **Explain Module A process, equipment and key process variables used in controlling the process**
6. **Explain Module B process, equipment and key process variables used in controlling the process**
7. **Explain Module C process, equipment and key process variables used in controlling the process**
8. **Explain Module F process, equipment and key process variables used in controlling the process**

