

PTAC 2346
Process Troubleshooting

Western Texas College

- I. Basic Course Information
 - A. Instruction in the different types of troubleshooting techniques, procedures, and methods used to solve process problem.
- II. Student Learning Outcomes
 - A. Collect data and identify techniques for troubleshooting.
 - B. Utilize applicable troubleshooting methods to solve process problems
- III. Major Course Requirements
 - A. Class / Lab Assignments
 - B. Class / Lab participation
 - C. Test / final exam
- IV. Information on Books and Other Course Materials
 - A. None
- V. Other Policies, Procedures and Important Dates are available in the [Catalog](#).
- VI. Course Organization and Schedule:
 - A. Weekly Schedule (Schedule subject to change)

Week 1	Introduction to Process Instrumentation and Troubleshooting
Week 2	Process Symbols and Diagrams
Week 3	Understanding Process Equipment
Week 4	Introduction to Control Loops
Week 5	Statistics, Quality Tools, and Troubleshooting Techniques
Week 6	Control Charts
Week 7	Introduction to Process Troubleshooting
Week 8	Pump Model
Week 9	Compressor Model
Week 10	Heat Exchanger Model / Cool Tower Model
Week 11	Boiler Model / Furnace Model
Week 12	Distillation Model / Reactor Model
Week 13	Separation Model
Week 14	Multivariable Plant
Week 15	Review

Week 16	Final Exam
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- VII. Grading (Grading subject to change)
 - 1. Class/Lab Assignments.....50%
 - 2. Lab participations.....20%
 - 3. Tests / Final Exam.....20%
 - 4. Attendance.....10%

Last Modified: September 19, 2017