



Wayne County Community College District

COURSE SYLLABUS

FM 102 Plumbing and Pipe Fitting

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:

This course covers mechanical blueprint reading, pipes and valves construction, valve operation, repair and maintenance, BOCA mechanical codes for plumbing and pipe fitting methods of pipe connection, uses of sewer augers, size and cutting of piping materials, reading pressure gauges to determine fluid pressure, copper pipe letter codes to determine pipe thickness, repair, maintenance and operation of back flow preventers. Also, basic function of plumbing sanitation, fitting, piping, vents, traps, potable, hot water supply drain, waste and sewer, etc. will be covered.

PREREQUISITES: NONE

EXPECTED COMPETENCIES:

Upon successful completion of this course, the student will:

1. Safety/plumbing tools/leveling instruments
2. Math for plumbing/HYD and pneumatic/print reading
3. Rigging & hoisting /building & plumbing codes
4. Soldering brazing and welding/excavating
5. Water system/water treating/plumbing fixtures
6. Piping materials/valves & meters/water heater
7. Design plumbing/preparing for plumbing installation
8. DWV pipe and fitting/water system installation
9. Testing pipe and fitting/faucet installation/septic tank

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9%= B
70%-79.9%= C
60%-69.9%= D
<60% = E