Kentucky CTE

Advanced Manufacturing: Industrial Maintenance Technology: Welding for Maintenance 470328 (2026–2027)

Practice and perform safe shop procedures at all times. 1	1 Practice and perform safe shop procedures at all times. 1
Apply the technical math required for employment opportunities in maintenance. 2	2 Apply the technical math required for employment opportunities in maintenance. 2
Perform all duties with emphasis on integrity, responsibility, quality, discipline and teamwork. 3	3 Perform all duties with emphasis on integrity, responsibility, quality, discipline and teamwork. 3
Describe the selection, care, and storage of oxyfuel-cutting equipment. 4	4 Describe the selection, care, and storage of oxyfuel-cutting equipment. 4
Explain the identification, selection, and storage of SMAW electrodes. 5	5 Explain the identification, selection, and storage of SMAW electrodes. 5
Apply principles of the SM we	6 Apply principles of the SMAW process to cutting welding metals. 6

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Describe the setup and use of SMAW welders. 7	**7 Describe the setup and use of SMAW welders.** 7
Explain the application of basic metallurgy principles to control the chemical, physical, and mechanical properties of carbon steel. 8	**8 Explain the application of basic metallurgy principles to control the chemical, physical, and mechanical properties of carbon steel.** 8
Explain the proper use of shop equipment and tools. 9	**9 Explain the proper use of shop equipment and tools.** 9
Explain the setup and use of MIG welders. 10	**10 Explain the setup and use of MIG welders.** 10
Explain the setup and use of TIG welders. 11	**11 Explain the setup and use of TIG welders.** 11