Kentucky CTE

Advanced Manufacturing: Industrial Maintenance Technology: Shielded Metal Arc Welding and Lab (For Maintenance) 470354 (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
Identify, select, and store SMAW electrodes. 4	4 Identify, select, and store SMAW electrodes. 4
Apply principles of the SMAW process to cut and weld metals. 5	5 Apply principles of the SMAW process to cut and weld metals. 5
Apply the knowledge of the effects of variables on the SMAW process to weld plates and pipes. 6	6 Apply the knowledge of the effects of variables on the SMAW process to weld plates and pipes. 6

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Apply the knowledge of basic metallurgy to control the chemical, physical, and mechanical properties of carbon steel. 7	**7** **Apply the knowledge of basic metallurgy to control the chemical, physical, and mechanical properties of carbon steel.** 7
Use shop equipment and tools. 8	**8** **Use shop equipment and tools.** 8