

SHIELDED METAL ARC WELDING



Short-Term Embedded Technical Diploma

30-442-4

Welding is the most common way of permanently joining metal parts. Heat is applied to the pieces to be joined, melting and fusing them to form a permanent bond. Because of its strength, welding is used to construct and repair parts of ships, automobiles, spacecraft, and thousands of other manufactured products. Welding is used to join beams and steel reinforcing rods when constructing buildings, bridges, and other structures, and also in utilities such as nuclear power plants.

Graduates of the program will gain experience in the Shielded Metal Arc Welding process. They will develop the ability of blueprint reading, sketching, and layout for welding. Major job skills learned will include: Shielded Metal Arc Welding (SMAW)

Semester 1		Credits
442-109	Mechanics of Learning for Welding	1
449-300	Safety for General Industry	1
442-318	Introduction to Welding	1
442-343	Welding Blueprint Reading 1	1
421-310	Print Reading for Manufacturing	1
442-336	Shielded Metal Arc Welding 1	1
442-337	Shielded Metal Arc Welding 2	1
442-338	Shielded Metal Arc Welding 3	1
442-339	Shielded Metal Arc Welding 4	1
442-340	Shielded Metal Arc Welding 5	1
442-154	Thermal Cutting	1
Credits		11
Total Credits		11