

**DEKALB TECHNICAL COLLEGE**  
**Clarkston Campus**

**WELDING AND JOINING TECHNOLOGY**  
**TECHNICAL CERTIFICATES OF CREDIT**

The Welding and Joining Technology Technical Certificates of Credit programs are sequences of courses that prepare students for careers in the welding industry. Learning opportunities develop academic, technical and professional knowledge and skills required for job acquisition, retention, and advancement. The programs emphasize a combination of welding theory and practical application necessary for successful employment.

**ORNAMENTAL IRON FABRICATOR**

Course Number	Course	Class Hours	Lab Hours	Total Hours	Credit Hours	Prerequisites/Corequisites
WLD 100	Introduction to Welding Technology	40	40	80	6	
WLD 101	Oxyfuel Cutting	20	60	80	4	WLD 100
WLD 154	Plasma Cutting	40	30	70	5	WLD 100, WLD 101
WLD 156	Ornamental Iron Works	<u>20</u>	<u>80</u>	<u>100</u>	<u>5</u>	WLD 100
	<b>TOTAL</b>	<b>120</b>	<b>210</b>	<b>330</b>	<b>20</b>	

\*Approved admission level English, reading and/or mathematics competency required.

**CIP CODE: 48.0508Z1**

**MAJOR CODE: OIW1**

**REQUIRED CREDIT HOURS: 20**

**10/07**

The curriculum is subject to change to meet changing conditions. As set forth in its catalog, DeKalb Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, veteran status, or citizenship status (except in those special circumstances permitted or mandated by law).

**COURSE DESCRIPTIONS**

**WLD 100 – INTRO TO WELDING TECHNOLOGY (6)**

Provides an introduction to welding technology with an emphasis on basic welding laboratory principles and operating procedures. Topics include: industrial safety practices, hand tool and power machine operations, measurement, laboratory procedures, introduction to codes and standards, welding career potentials and certification eligibility, basic electricity and power sources, metals characteristics, preparation, and testing procedures. Laboratory demonstrations parallel class work.

**WLD 101 - OXYFUEL CUTTING (4)**

Prerequisite/Corequisite: WLD 100

Introduces fundamental principles, safety practices, equipment, and techniques necessary for metal heating and oxyfuel cutting. Topics include: metal heating and cutting principles, safety procedures, use of oxyfuel cutting torch and flame cutting apparatus, metal heating and cutting techniques, cutting with manual and automatic cutting machines, and oxyfuel pipe cutting. Practice in the laboratory is provided.

**WLD 154 – PLASMA CUTTING (5)**

Prerequisites: WLD 100, WLD 101

Provides knowledge of theory, safety practices, equipment, and techniques required for plasma cutting. Topics include: safety practices; plasma torch and theory; plasma machine set up and operation; and plasma cutting techniques.

**WLD 156 – ORNAMENTAL IRON WORKS (5)**

Prerequisite: WLD 100

Provides an introduction to ornamental ironworks with emphasis on safety practices, equipment and ornamental ironwork techniques. Topics include: introduction to ornamental ironworks and safety practices; use of scroll machine, and use of bar twister.

**ESTIMATED PROGRAM COSTS**

**ORNAMENTAL IRON FABRICATOR**

Tuition/Fees*	\$944.00
Books.....	\$150.00
<b>Total.....</b>	<b>\$1,094.00</b>

\* Total based on two (2) quarters of attendance

Tuition/fees and cost of books/supplies are estimates only and are subject to change without notice. Tuition is based on Georgia residency.

**10/07**