WELDING TECHNOLOGY
(SMAW, MIG-TIG)

A BRIGHT FUTURE THAT CONTINUES TO GROW YEAR AFTER YEAR.

- TEACHING THE BASICS
- UPGRADING SKILLS
- IMPROVING PERFORMANCE
- PROVIDING NEW CAREER OPTIONS

MIAMI LAKES EDUCATIONAL CENTER AND TECHNICAL COLLEGE

We provide the highest quality education so that all of our students are empowered to lead productive and fulfilling lives as lifelong leaners and responsible citizens.

305.557.1100

MIAMILAKES.EDU

MIAMI LAKES EDUCATIONAL CENTER AND TECHNICAL COLLEGE

is accredited by the Commission of the Council on Occupational Education, 7840 Roswell Road, Building 300, Suite 325, Atlanta, GA 30350, Telephone: 770-396-3790, www.council.org.

Our Vision,Mission and Core Values

VISION: The vision of Miami Lakes Educational Center and Technical College is to facilitate, promote and provide successful career training opportunities and high academic standards for secondary and postsecondary students desgined to meet the challenges of an everchanging global economy.

CORE VALUES: Accountability, Citizenship, Flexibility, Integrity, Organizational and Personal Learning, Positive Atmosphere and Culture, Preparing Students, Professionalism, Pursuit of Excellence, Respect, and Valuing Stakeholders.

MISSION: The mission of Miami Lakes Educational Center and Technical College is to create a highly qualified future workforce by offering state-of-the-art academic, career and technical education to all generations within our community.

THE SCHOOL BOARD OF MIAMI-DADE COUNTY, FLORIDA

Ms. Mari Tere Rojas, Chair

Ms. Monica Colucci, Vice-Chair

Mr. Roberto J. Alonso

Ms. Lucia Baez-Geller

Dr. Dorothy Bendross-Mindingall

Ms. Mary Blanco

Mr. Danny Espino

Dr. Steve Gallon III

Ms. Luisa Santos

Dr. Jose L. Dotres, Superintendent of Schools

M-DCPS does not discriminate on the basis of age, citizenship status, color, disability, ethnic or national origin, Family and Medical Leave Act (FMLA), gender, gender identity/stereotypes, genetic information, linguistic preference, marital status, political beliefs, pregnancy, race, religion, retaliation, sex, sexual harassment, sexual orientation, and social and family background or any other basis prohibited by law in its educational programs, services, activities, admissions or in its hiring and employment practices. Please refer to School Board Policies 1362, 1362.02, 3362, 3362.02, 4362, 4362.02, 5517 and 5517.02 for more information. For additional information about Title IX or any other discrimination/harassment concerns, contact the U.S. Department of Education Assistant Secretary for Civil Rights and/or: District Director/Title IX Coordinator, Office of Civil Rights Compliance, 155 NE 15 Street, Suite P-104E, Miami, Florida 33132; PH: 305-995-1530; E-mail: crc@dadeschools.net; Website: http://hrdadeschools.net/civilrights. The District also provides equal access to its facilities, as required by the Boy Scouts of America Equal Access Act.

WELDING TECHNOLOGY (SMAW, MIG-TIG)

Program Objective

The Welding Technology-Advanced Program trains students for careers as specialty welders in various sectors of the welding industry. It focuses on developing intermediate and advanced skills in Shielded Metal Arc Welding (SMAW) and Gas Tungsten Arc Welding (GTAW), as well as pipe fitting techniques. The course is tailored for both new and current welders, emphasizing efficient setup and fabrication of fixtures to enhance productivity and reduce costs. It also includes training in advanced welding procedures, robotic welding, and principles of Computer Numerical Controlled (CNC) Plasma Cutting, covering setup, basic programming, and troubleshooting.

Program Content

The Welding Technology program course prepares students for entry into the welding industry. Students explore career opportunities and requirements of a professional welder. Content emphasizes beginning skills key to the success of working in the welding industry. Students study workplace safety and organization, basic manufacturing processes, metals identification, basic interpretation of welding symbols, and oxyfuel gas cutting practices.

Admission Requiements

- 16 years of age or older and not currently enrolled in any
- K-12 program
- Occupational Interest
- Prior course graduate of the Applied Welding Technologies class, Welding Technology class or experience of up to 3 years in advanced welding processes. OAW, GMAW, GTAW, SMAW, and FCAW.
- Create update profile information on Focus
- Meet with a counselor
- No specific requirement for Information Technology

Completion Requirements

The entire program is 1050 hours, but students can earn a certificate upon completion of the following OCPs:

OCP	COURSE	HOURS
A	Welder Assistant 1	150
A	Welder Assistant 2	150
B	Welder, SMAW 1	150
B	Welder, SMAW 2	150
C	Welder	450

Minimum basic-skills grade levels required for awarding a Full Program Completion Certificate are 10th grade in Math, Reading, and Language on the TABE® test, or Industry Certification. Additional information can be provided by student services.

Students are expected to complete program competencies.

Employment Opportunities

- Aerospace/Aviation Industry
- Arc Welder
- Assembler Welder
- Combination Welder
- Ornamental Iron-filter
- Welder
- Pipe Fitter
- Repair Welder
- Solderer
- Specialty Welder
- Tack Welder
- Iron Worker
- Marine Industry

Salary

According to the Bureau of Labor Statistics the average earnings in 2023 for a welder were **$49,250** annually or **$23.68** per hour.

Financial Aid

Financial aid is available to those who qualify. Applicants must have a high school diploma from an accredited High School, or its equivalent. To apply, complete the Free Application for Federal Student Aid, at www.fafsa.gov. Questions pertaining to this matter should be directed to the Financial Aid Office.

Program Cost

- In-state residents - $2.56 per hour (Subject to change)
- Out of state resident - $10.25 per hour (Subject to change)
- $20.00 application fee per trimester
- Material fee – Varies by program
- Identification fee - $5.00 per trimester
- Students must purchase books/kits and/or uniforms, if applicable

Program Hours

- Monday - Thurday from 5:00 p.m. to 11:00 p.m.