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CAREER & TECHNICAL
EDUCATION

CAREER & TECHNICAL EDUCATION (CTE) TODAY

Strengthening the Pipeline to College & Careers



CAREER & TECHNICAL
EDUCATION



SECONDARY EDUCATION CAREER PATHWAYS

17 CAREER CLUSTERS

Agriculture, Food &
Natural Resources

Architecture &
Construction

Arts, A/V Technology &
Communication

Business Management
& Administration

Education & Training

Energy

Engineering &
Technology
Education

Finance

Government & Public
Administration

Health Science

Hospitality & Tourism

Human Services

Information
Technology

Law, Public Safety &
Security

Manufacturing

Marketing, Sales &
Service

Transportation,
Distribution, &
Logistics

CAREER PATHWAY OVERVIEW



M-DCPS offers over 120 CTE Pathway programs at 62 high schools and in over 50 M-DCPS Middle and K-8 schools.

The chart below highlights a few of the M-DCPS CTE pathways.
For more information go to: dcte.dadeschools.net



* For information on NAF Academies, go to: MiamiNAFAcademies.org

** FLDOE Registered Preapprenticeship leading to Apprenticeship after high school

FLORIDA 2030 WORKFORCE GOAL



The Get There Florida Workforce Education Initiative

- A Workforce education initiative aimed at raising awareness of short-term, high-value career and technical education programs.
- Partnership with the state's 28 Florida College System institutions and the state's 48 technical colleges or centers.
- Accelerates completion of an in-demand, high-value industry certification or postsecondary workforce credential.

A person is working at a desk in a professional setting. The desk is cluttered with various items: a silver laptop, an open notebook, a pair of glasses, a smartphone, and a small potted plant. The person is wearing a light-colored, short-sleeved button-down shirt. An orange banner is overlaid on the image, containing the text "Quality over Quantity" in white. The background is slightly blurred, showing other people in the office.

Quality over Quantity

HIGH-QUALITY CTE PROGRAMS



Provide opportunities for students to earn a recognized credential of value.



Provide instruction that integrates academic, technical, and employability knowledge and skills.



Provide instruction that incorporates relevant equipment, technology, and materials.



Provide CTE instructors who:

Maintain up-to-date knowledge and skills across all aspects of industry.

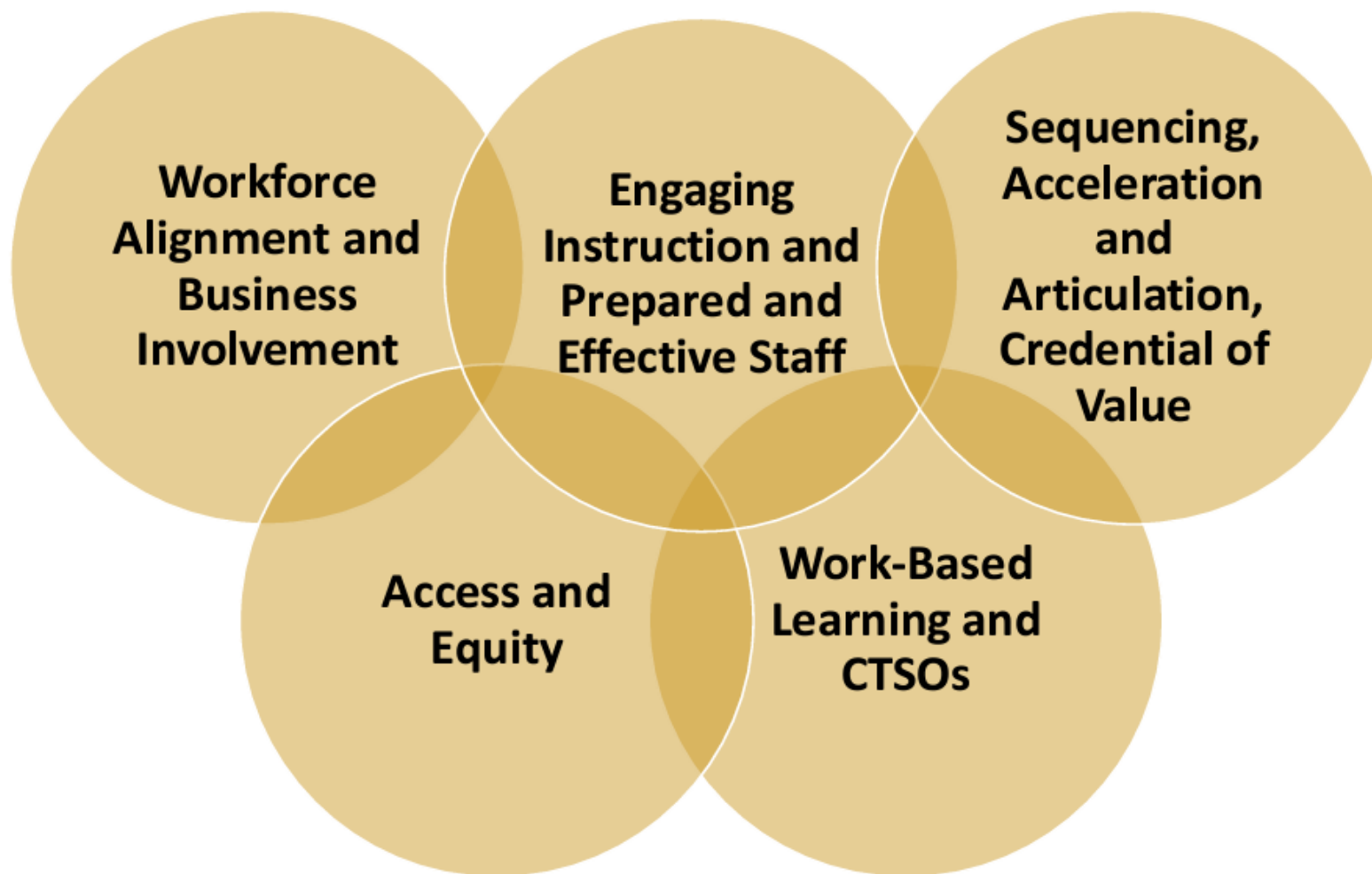
Maintain relevant evidence-based pedagogical knowledge and skills necessary to support learning.



Implement measures to eliminate barriers and create opportunities for all students to succeed in CTE.



Perkins V Quality Components of CTE Programs



QUALITY PROGRAM OF STUDY FRAMEWORK

- Facilities, Equipment, Technology and Materials
- Business and Community Partnerships
- Student Career Development
- Work-based Learning
- Data and Program Improvement

WORK-BASED LEARNING (WBL)

Integration of workplace experiences and CTE curriculum

- Students engage in authentic workplace tasks
- Includes activities beyond traditional cooperative education
- Effectiveness is directly related to the quality and effectiveness of the partnership
- Provides personal, educational, and career-related benefits to learners and employees



WORK-BASED LEARNING (WBL)

Examples of WBL activities that are/are not governed by Rule 6A-23.0042, F.A.C.:

Included Activities

- Internships
- Cooperative education on-the-job training (OJT)
- Clinicals
- Practicums
- School-based enterprises
- Service learning
- Capstone or industry projects
- Virtual or simulated work-based learning

Excluded or Ineligible Activities

- Registered apprenticeships*
- Preapprenticeships*
- Job shadowing
- Mentoring
- Informational interviews
- Company tours

REASONS TO OFFER WORK-BASED LEARNING

Benefits for Students

- Improve student perceptions of and engagement with education
- Strengthen student resume/application competitiveness
- Explore career paths firsthand and get clarity on career direction
- Establish industry relationships and connect to industry networks

Benefits for Local Educational Agencies

- Stronger employer relationships
- Better resourced and staffed CTE programs
- Improves student preparation for the workforce

Benefits for Businesses

- Stronger, more diverse talent pipeline
- Improved brand awareness and community image
- Low-cost, customizable employee training
- Stronger work culture of community service and leadership
- Tax credit for postsecondary internships through §220.198, Fla. Stat.



Access

Opportunity to fully participate
in campus life.

Equity

Fair and just outcomes for all
to achieve their full intellectual
and professional potential.

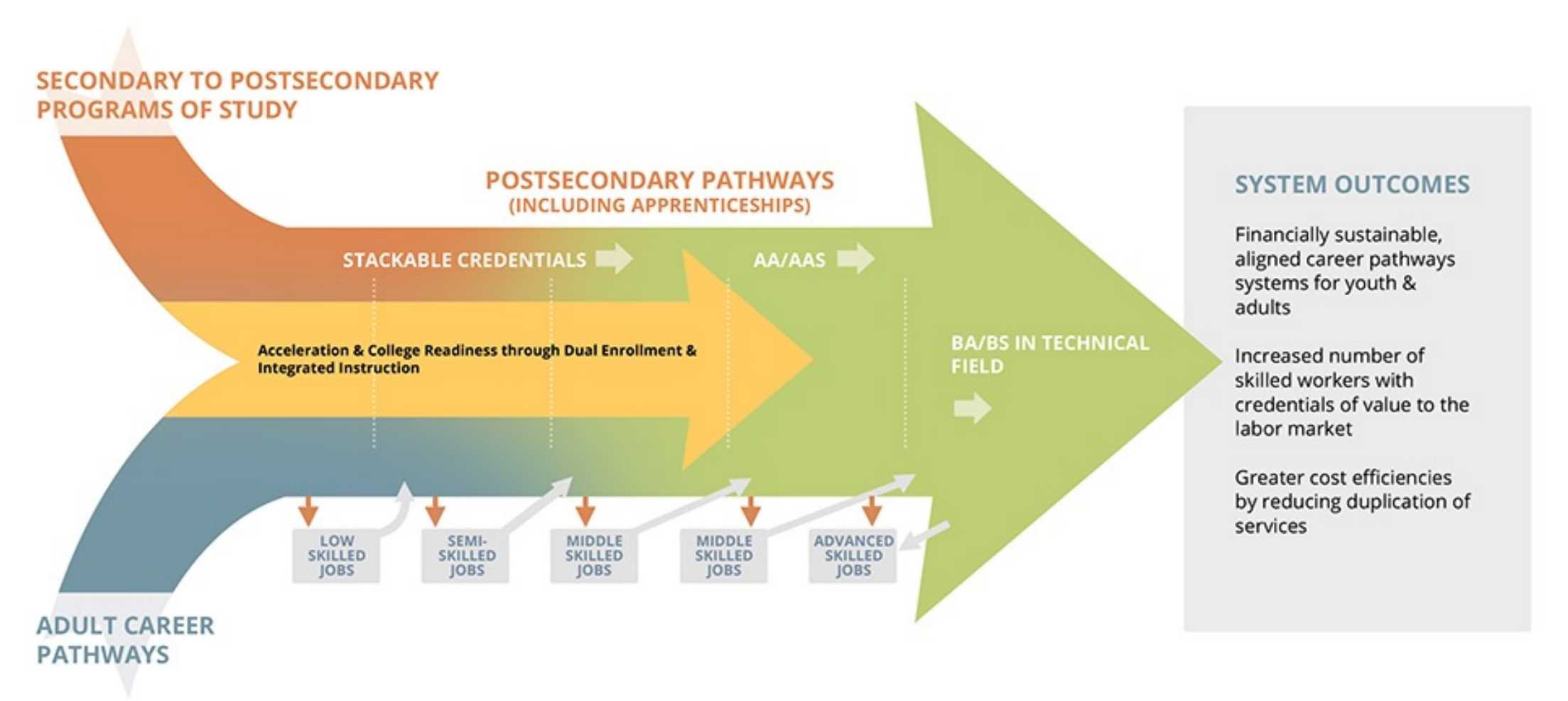
Inclusion

An individual or group sense
of belonging as a valued
member(s) of campus life.

ACCESS & EQUITY

PIPELINE TO POSTSECONDARY EDUCATION

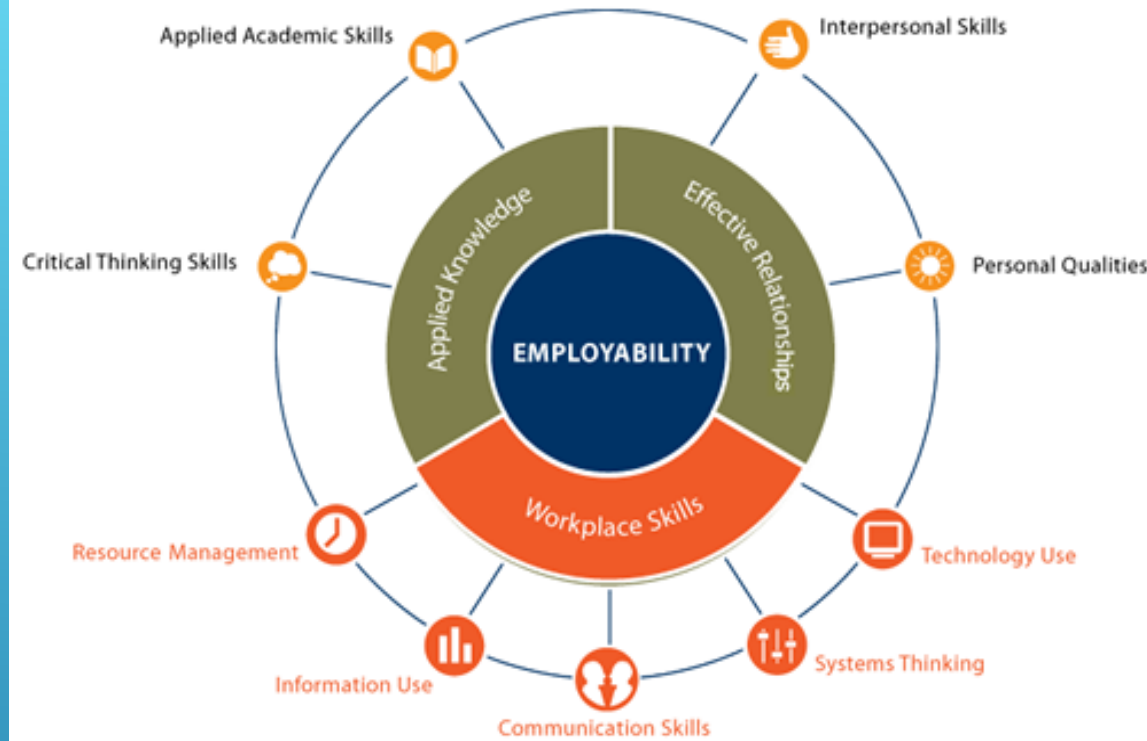
CTE supports successful transition from secondary to postsecondary education and career pathways by ensuring academic standards are meaningful for all students and aligned with postsecondary entrance requirements.



PIPELINE TO POSTSECONDARY EDUCATION

Employability Skills

- Programs that offer soft skills development equip students with the range of skills that employers are looking for.
- Strategies such as competency-based education that states can consider to ensure students are ready for postsecondary success.
- Successful careers are built on solid personal and interpersonal skills.



Developing **effective relationships** in the workplace requires a combination of interpersonal skills and personal qualities.



Interpersonal skills include the ability to collaborate as a member of a team or work independently, as appropriate; communicate effectively; maintain a positive attitude; and contribute to the overarching goals of the workplace.

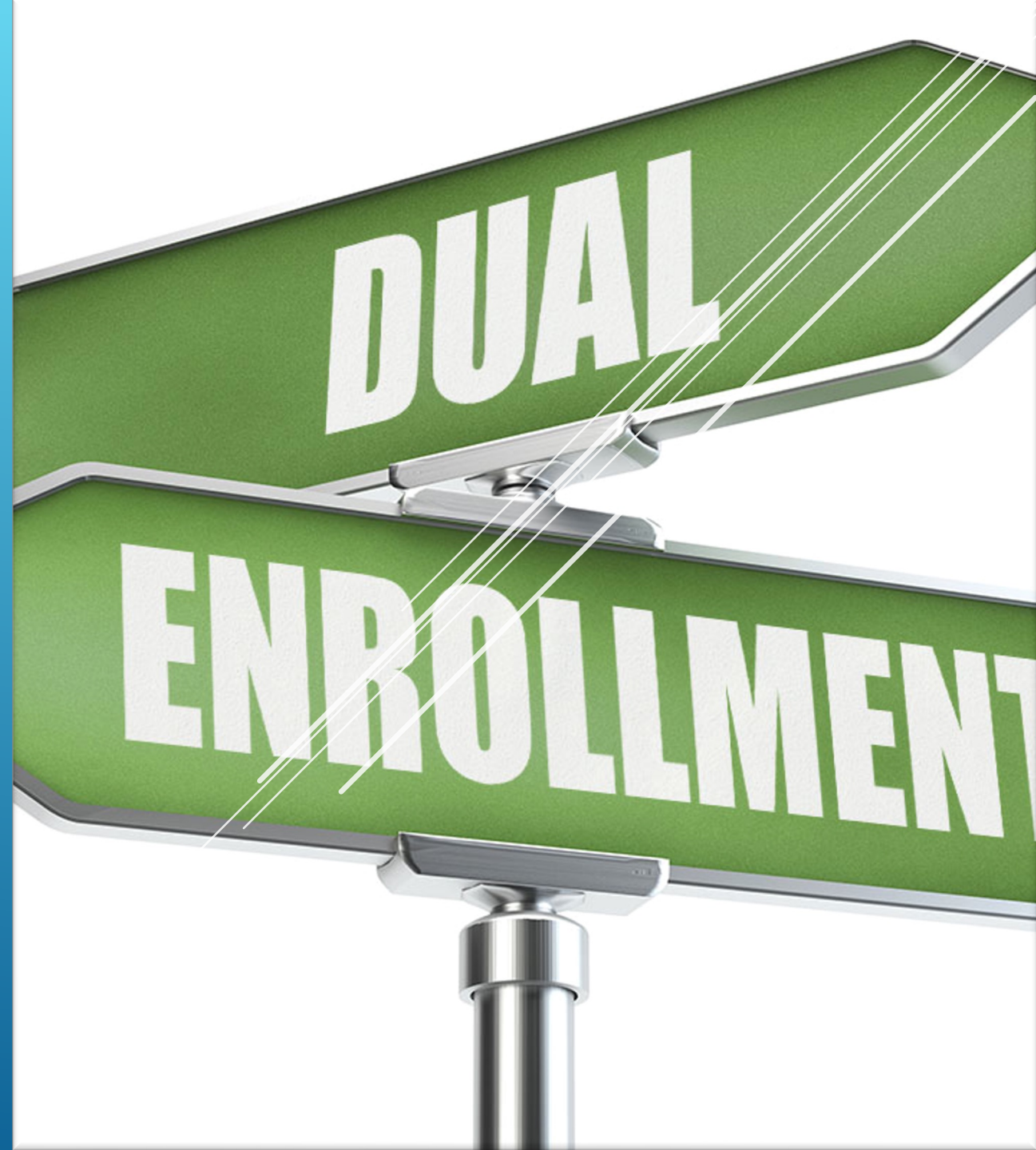


Personal qualities that contribute to effective relationships include responsibility, self-discipline, flexibility, integrity, and initiative. Other essential qualities are a sense of professionalism and self-worth; willingness to learn; and acceptance of responsibility for one's own personal growth.

PIPELINE TO POSTSECONDARY EDUCATION

Dual Enrollment

- Allows secondary students, including home education and private school students, to take postsecondary coursework and simultaneously earn credit toward a high school diploma, a career certificate, an associate or baccalaureate degree at a Florida public or eligible private institution.
- Accelerates high school students' route to postsecondary education, workforce readiness, and in-demand careers.



Workforce Education System – Pathway to a Career

FLORIDA COLLEGE SYSTEM

- College Credit Certificate
- Career Certificate
- Applied Technical Diploma
- Industry Certification
- Baccalaureate
- Associates

2 + 2

STATE UNIVERSITY SYSTEM

PRIVATE COLLEGES & UNIVERSITIES

TECHNICAL COLLEGES/ CENTERS

- Career Certificate
- Applied Technical Diploma
- Industry Certification

ADULT EDUCATION

- Certificate
- High School Equivalency
- Diploma

APPRENTICESHIP

- Certificate

High Schools

- Career and Technical Program
- Industry Certification

Middle Schools

- Digital Tool Certificate
- Industry Certification

Industry Advisors



PIPELINE TO POSTSECONDARY EDUCATION

Preapprenticeships

- A training program designed to prepare individuals to enter and succeed in a registered apprenticeship program.
- To expand the pipeline of applicants seeking to enter these programs and better address the skills gap issue, many are turning to preapprenticeship programs at the elementary, middle, and high school levels.



PRE-APPRENTICESHIP PROGRAMS BY OCCUPATION

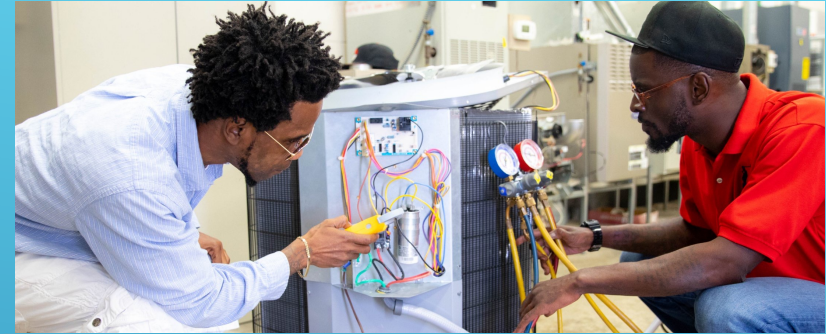
Teacher Assistant, 6 months

Carpenter, 1-year

Electrician, 1-year

Heating and Air Conditioning Mechanic and Installer,
1-year

Plumber, 1-year



PIPELINE TO POSTSECONDARY EDUCATION



APPRENTICESHIPS



EMPLOYER-DRIVEN model and a Great Opportunity for a Career Pathway



Apprentices are hired by employers and trained in structured work plans, leading to proficiency in an occupation.



Apprenticeship is a work-based learning program consisting of classroom instruction and paid on-the-job training.



Apprenticeship is also an employment opportunity; **EARN** while you **LEARN**

PIPELINE TO POSTSECONDARY EDUCATION

How Does an Apprenticeship Program Work?



BUSINESS INVOLVEMENT

Employees are the foundation of every Registered Apprenticeship Program.



STRUCTURED ON-THE-JOB TRAINING

Apprentices receive on-the-job training from an experienced mentor for typically not less than a year.



RELATED TECHNICAL INSTRUCTION (RTI)

Apprenticeships combine on-the-job learning with technical education at community colleges, technical schools, apprenticeship training schools, provided online or at the jobsite.



REWARDS FOR SKILL GAINS

Apprentices receive increases in wages as they gain higher level skills.



OCCUPATIONAL CREDENTIAL

Registered Apprenticeship Programs result in a nationally-recognized credential – a 100% guarantee to employers that apprentices are fully qualified for the job.

Apprentice Benefits



A career pathway to various occupations

Free tuition and books

Ability to learn at your pace, with hands on instruction

Paid on-the-job training

Wage increases based on learned skills

Ongoing skill development and assessment

Nationally recognized industry credential

Structured mentoring and coaching.

APPRENTICESHIP PROGRAMS BY OCCUPATION

Aircraft Structural Assembly and Fabrication, 2 year

Automotive Service Technician, 2 year

Automotive Technician Specialist, 1 year

Building Automation Technician, 2 year

Customs Broker, 1 year

Dental Assistant, 1 year

Financial Specialist, 1 year

Help Desk Technician, 1 year

Hotel Associate, 2 year

Personal Banking Representative, 1 year

Project Manager, 1 year

Nurse Assistant Certified (Alt. Title: Nurse Assistant), 1 year

Operations/General Manager, 1 year

Transportation & Logistics Specialist, 1 year

Teacher Assistant, 18 months



CTE PROGRAM SUSTAINABILITY

CTE Programs engage students in hands-on, real-world learning to prepare them with concrete knowledge and skills to succeed in their chosen careers.

ADAPTABILITY TO DYNAMIC WORKFORCE NEEDS

- Articulate Program Purpose
- Choose Relevant Courses
- Professional Development
- Build Partnerships within the Community
- Program Evaluation

THANK YOU!

For additional information, please contact:

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<https://www.mdc.edu/apprenticeships/>



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