

We are Workforce Education: Integrated, Innovative and Inclusive!



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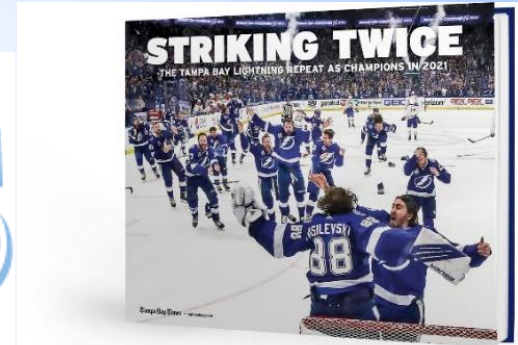
**ACE of Florida Conference
Monday, September 27, 2021**

We are Workforce Education in
Pinellas County, Florida!

We are also part of
Tampa Bay



Home to:



2020 Population of



Includes Pinellas Hillsborough Pasco Hernando

3.24 Million!

**Largest cities = Tampa,
St. Petersburg, Clearwater**

2020 Population of Pinellas County

959,107

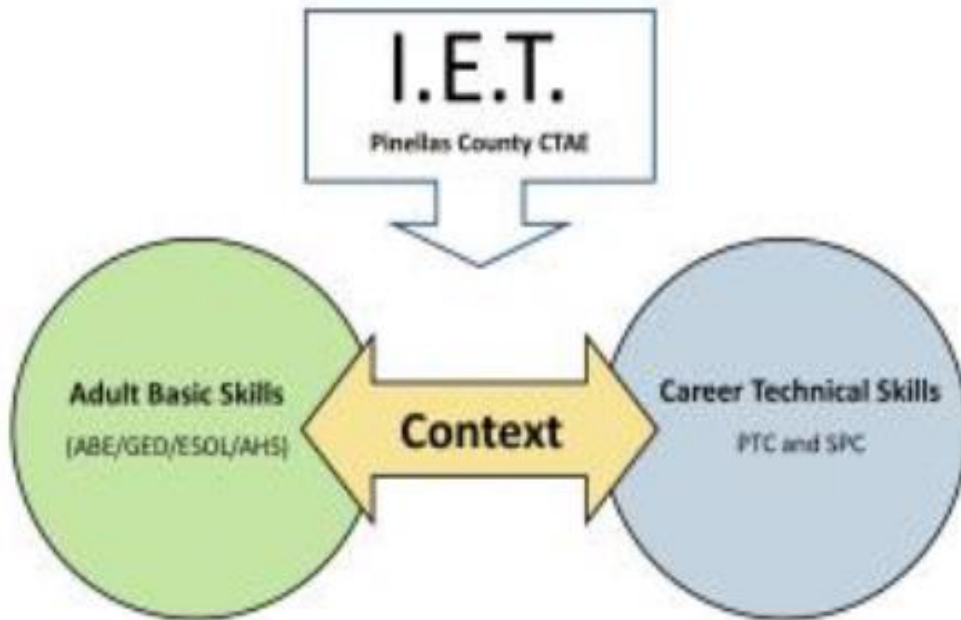
**Pinellas is the most densely populated
county in Florida- 3,504 people per square
mile- next closet is Broward with 1,616 ppsm**



We are Workforce Education: Integrated, Innovative and Inclusive!



- ***Timeline of Workforce Education Journey***
- ***Changing Hearts and Minds- Transitioning to Workforce Educators: How Professional Development Plays a Role in IET Integration***
- ***Career Pathways Student Plan, Resource Notebook, and other Best Practices***
- ***Fostering Community Partnerships***
- ***IET Contextualized Lesson Plan- Perimeter and Area Activity***





- ▶ **WIA: Workforce Investment Act-** signed by President Clinton in 1998. The main federal workforce development legislation, WIA was enacted to bring about increased coordination among federal workforce development and related programs
- ▶ **WIA: Strengthened under President Obama in 2012** to include requirements for career pathways for workforce education (adult education) programs
- ▶ **WIOA: Workforce Innovation and Opportunity Act-**passed by Congress in 2014 with a wide bipartisan majority to improve job and career options for our nation's workers and job seekers through an integrated, career driven public workforce system that links diverse talent to businesses

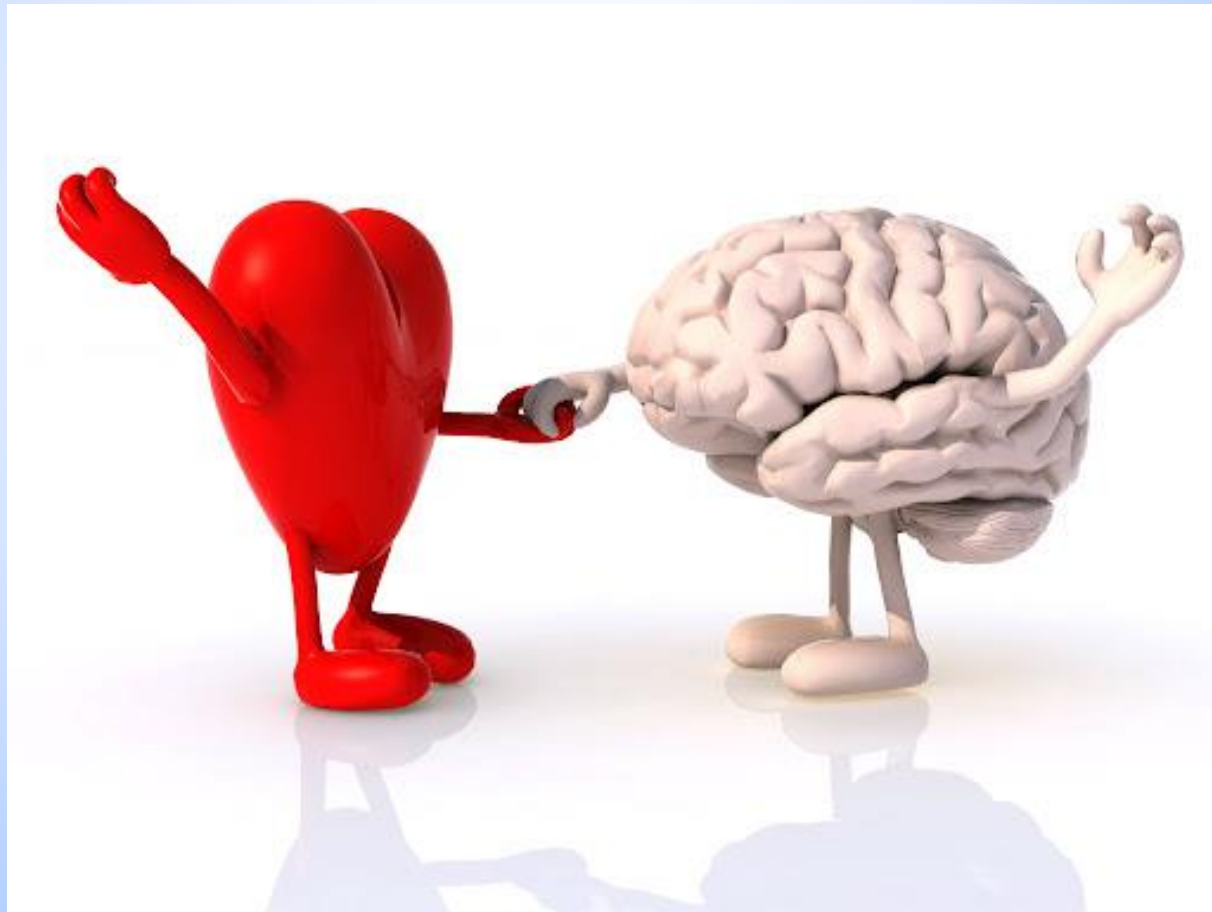
Three gentlemen you may know..

Each already had a designated career path, but needed just one thing to be successful. Watch how the transition from WIA to WIOA happened here....

https://www.youtube.com/watch?v=rjBrkfX_XHw



How Did We Transition From ABE/GED/AHS/ESOL Instructors to Workforce Educators?



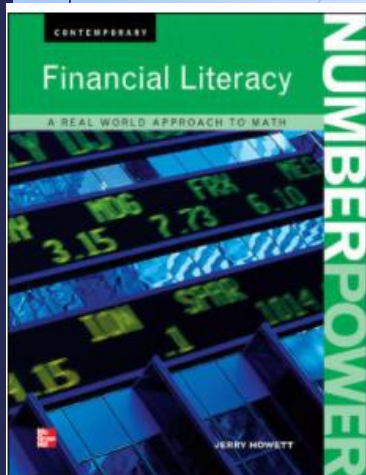
Every Journey Begins With the First Step

2011-2014 In Pinellas:

- 2011-2012 Received DOE grant to: *Build an Adult Education Career Pathways System for Transitioning to Post- Secondary Education*
- Representatives were selected to serve on Florida's Adult Career Pathways Steering Committee
- Identified school-based ACP liaisons to integrate ACP activities within the classroom
- Adopted and provided professional development for student career interest inventories – “Choices” and “PIC”
- Assembled ACP Teacher Toolkit with texts for each of the 17 career clusters
- Developed and rolled out Financial Literacy curriculum and prescriptions
- Created Career Ladders for high wage, high demand careers most sought after in Pinellas and Tampa Bay



Contemporary's Financial Literacy NUMBER POWER



Pinellas County Adult Education Financial Literacy

2012

Student's Name: _____

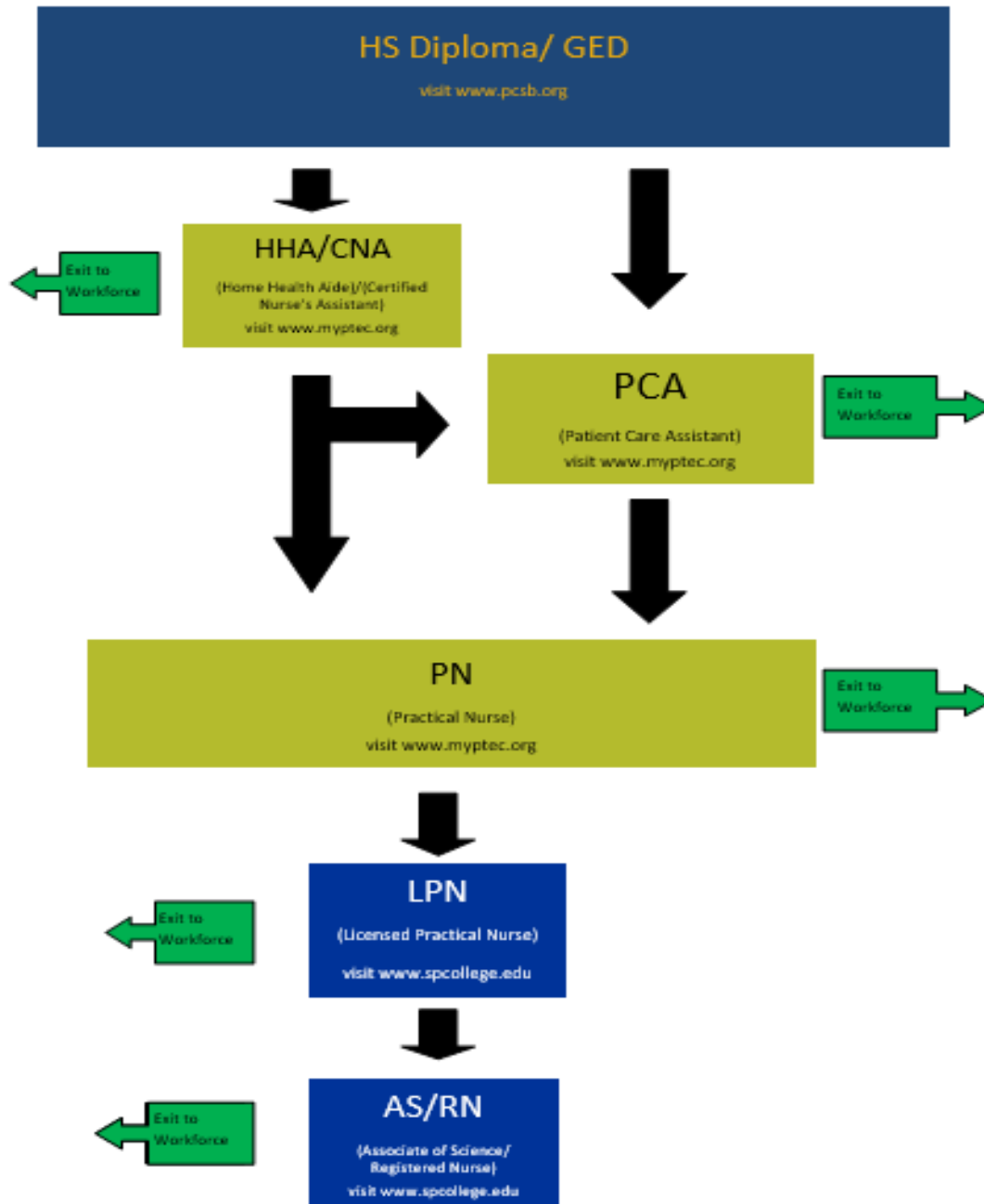
Entry Date: _____

Entry Score: _____

Goal Score: _____

Note: See last page for resource list and abbreviations.

Pretest	Posttest	Objective (Skill)	Resources	Assigned Pages / Software	Date Completed
1, 2	1, 2	Managing Money - Income	Financial Literacy smartaboutmoney.org myfloridacfo.com/YMM SayLowerBills.com	11 - 20 Major Life Events/Moving <u>In</u> with a Partner/Cash Flow Management and Starting Off Right/Savings and Education and Careers/Jobs and Benefits/Managing Jobs and Benefits Calculators/Left Column Tab/Allowance Comparison, Salary Conversion, My Bonus After Taxes, Needs-Based Allowance, Emergency Fund, <u>Save</u> a Million, Saving for a Goal income or Rebates/increase your income	
3, 4	3, 4	Managing Money - Banking	Financial Literacy fdic.gov/moneysmart financialitnow.org myfloridacfo.com/YMM	21 - 30 Computer-Based Instruction TAB/Enter Money Smart CBI online/Log In: Bank <u>On</u> It, Check It Out, Keep It Safe Home Tab - Banking Basics and Learn Tab - Using a Debit Card Saving and Spending/Banking	



*Career
Ladders with
local post -
secondary
options*



Career Pathways Teacher Toolkit

Career Pathways Classroom Teacher Toolkit Index of Titles (One Title of each unless otherwise noted)

STARTING OUT SERIES

Starting Out in the Workplace
Starting Out in College

WORKPLACE SKILLS SERIES

Reading for Information
Locating Information
Applied Mathematics

SV WORK SKILLS: Situational Judgment & Active Listening

ESSENTIAL SKILLS SERIES

Tools for Workplace Success
Writing for Work
Get That Job

PATHWAYS: Document Literacy

WORDS TO LEARN BY SERIES:

Building Academic Vocabulary
Expanding Academic Vocabulary
Advancing Academic Vocabulary

NUMBER POWER SERIES

Financial Literacy
Transitions Math

TRANSITIONS: Preparing for College Writing

TEAS V Prep(2)

HOBET Prep(2)

Major Choices in Health Careers(3)

ASVAB Prep

Essential Health Care Terminology for English Language Learners (with CD)

PATHWAYS: Document Literacy

CAREER COMPANION SERIES

Agriculture, Food & Natural Resources
Art, Audio/Video, Technology, & Communication
Education & Training
Government & Public Administration
Hospitality & Tourism
Information Technology
Manufacturing
Science, Technology, Engineering, & Math
Green Pastures: Green Careers

Architecture & Construction
Business Management & Administration
Finance
Health Science
Human Services
Law, Public Safety, Corrections & Security
Marketing, Sales, & Service
Transportation, Distribution, & Logistics

PERT P.R.E. TEST PREP RESOURCES

SV LANGUAGE SKILLS BOOKS (10 PK)

Vocabulary Usage
Nouns, Verbs, Sentences

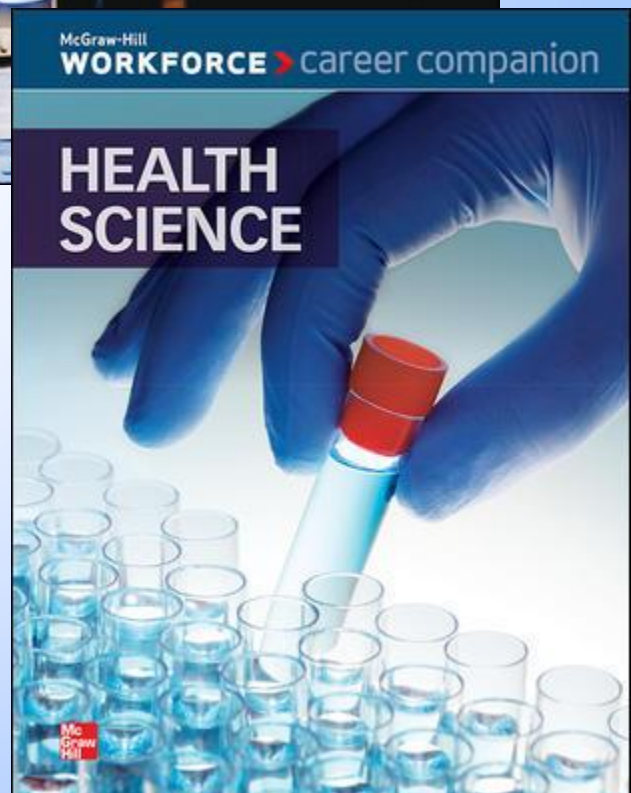
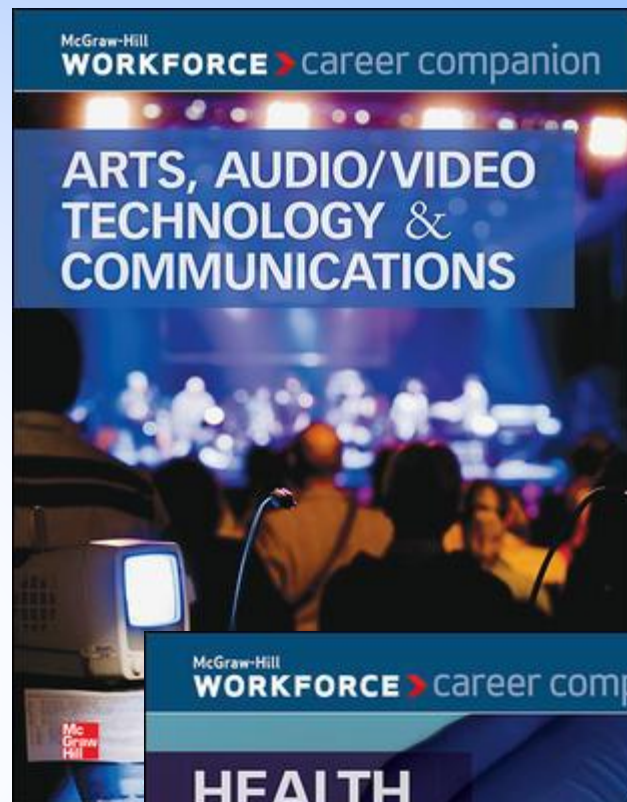
SV TABE FUNDAMENTALS

Language & Spelling Level D
Reading Level D
Math Computation Level D

SV GED Language Arts Reading

Capitalization and Punctuation
Pronouns, Adjectives, and Adverbs

Reading, Language & Spelling Level A
Computation & Applied Math Level A
Applied Math Level D
SV GED Mathematics

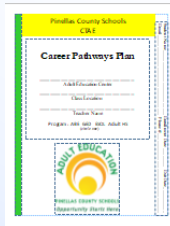


The Journey Continues...

2014-2016 In Pinellas:

- Transitioned from CHOICES as a career interest inventory document, and provided professional development and resources for *Kuder Journey*

- Developed an *Adult Career Pathways Plan* portfolio as a required auditable document to record career plans for all AGE students



- Created sample mini-lessons on soft skills and career acquisition aligned to FDOE Career Development standards



- Provided transportation/tours to Technical Colleges with career pathways follow up activities

- Partnered with Career Source to provide wrap around support services to students

CAREER AND EDUCATION PLANNING

The following career development standards are designed to be integrated into the ABE frameworks to assist students with career exploration and planning. Students can access the local agency's approved career information program for career exploration and development of a career plan.

Standards

CP. ABE.01 Develop skills to locate, evaluate, and interpret career information.

CP. ABE.02 Identify interests, skills, and personal preferences that influence career and education choices.

CP. ABE.03 Identify career cluster and related pathways that match career and education goals.

CP. ABE.04 Develop and manage a career and education plan.

MY CAREER PATHWAYS ACTIVITY OPTIONS

Develop skills to locate, evaluate and interpret career information. (CP.01)

Activity	Date	Activity	Date
Explore careers using internet (DL.03)		Identify & understand educational requirements	
Research current job market (DL.03)		OTHER	
Attend a career fair		OTHER	

Identify interests, skills, and personal preferences that influence career and ed. choices. (CP.02)

Activity	Date	Activity	Date
Attend Skills Assessment Workshop		Attend Positive Self-Esteem Workshop	
Complete online Interest Inventory		Attend Teamwork Workshop	
Attend Communications Workshop		Attend Social Networking Workshop (DL.04)	
Attend Professional Behavior Workshop		Attend Budgeting Workshop	
Attend Overcoming Barriers Workshop		OTHER	

Identify career cluster and related pathways that match career and education goals (CP.03)

Activity	Date	Activity	Date
Attend an Apprenticeship presentation		Visit a Pinellas Technical College campus	
Attend presentation by guest speakers		Visit St. Petersburg College campus	
Meet with a career/guidance counselor		Get a referral to post-secondary school or Career Source	
Talk to a Military Recruiter		OTHER	

Develop and manage a career and education plan. (CP.04)

Activity	Date	Activity	Date
Choose Career and set SMART goals		Conduct an active job search (DL.03)	
Complete resume (DL02)		Complete online job application (DL.02)	
Participate in mock interview		Apply for financial aid	
Complete Keyboarding Rx (DL.01)		OTHER	

Use activities above to develop SHORT TERM CAREER GOALS

Sample: I will complete ____ activities each term I am enrolled.

Make a statement of a LONG-TERM GOAL. (Where do you want to be in 2-3 years?)

Sample: In 3 years, I will have completed the nursing program at PTC.

Pathways to Community Partnerships

2016-2018 In Pinellas:

- Continued to strengthen partnerships with Pinellas Technical and St. Petersburg College campuses co- locating 7 ABE/GED & ESOL classes
- Hired an Occupational Specialist to facilitate transitions to post-secondary
- Partnered with local business to provide ESOL classes for employees for job promotion purposes
- Continued partnerships with community based organizations
- Opened a Career Source Youth Build program on an adult education campus
- Provided tuition and GED test vouchers through READ Pinellas, a local adult literacy group
- Developed Career Pathways Resource Notebook to facilitate wrap round services
- Networked and fostered collaborative efforts with neighborhood community centers and resource fairs



Career Pathways Resource Notebook 2017-2018



PINELLAS COUNTY SCHOOLS
Opportunity Starts Here



YouthBuild

YouthConnect



PINELLAS COUNTY JOB CORPS CENTER

ST. PETERSBURG, FL



**PINELLAS TECHNICAL
COLLEGE**

Opportunity Starts Here

**SPC St. Petersburg
College**



PINELLAS HOPE



James B. Sanderlin
Neighborhood Family Center

**READ
PINELLAS**



**Pinellas County
Urban League**

*Empowering Communities.
Changing Lives.*

Adult Career Pathways Resources



OneDrive



Name ▾



Accommodations Resources



Adult Career Pathways Resources



Games_Templates



GED Testing Resources



Language



Links



Math



Reading



Software Guides



Trainings & Webinars- Live and Recorded



ACP Portfolio-Career Pathways Plan



BayCare info



CSPIN



DCF Access Florida info



Family Resources



Florida Unemployment Benefits Eligibility



Free Food for Families



Job Updates



MyCareerShines



Pinellas County Florida Free Clinics



Pinellas Technical College



Responding to CENSUS



Soft Skills



U.S. Department of Labor and Florida Depa...

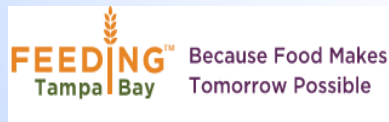


YearUp Tampa Bay Program

Florida's Unified Plan and IET Infusion 2018 to present



- Initiated “Meet and Greet” to the technical college
- District staff trainings on WIOA grant deliverable requirements
- Initiated new partnership with *Feeding Tampa Bay* to provide ESOL classes on site



- Partnered with PCS and HEP (Homeless Empowerment Program) to create a pathway to employment



- Created “*Rethink Adult Ed*” Taskforce involving various stakeholders to chart IET integration path forward

- Hosted IPDAE training, “*Advancing Contextualized Instruction in Language Arts and Mathematics*”

- Formed an IET Community of Practice to create contextualized curriculum lesson plans

- Encouraged creation of classroom career pathways boards to foster student career cluster cohorts





**Students
interested in
Pinellas
Technical
College are
referred for
“Meet and
Greets”**

Adult Education Student Interest Survey Date: _____

Name:	Adult Center & Class Location:
Phone: Email:	Referring Teacher:
Are you applying for Financial Aid? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	CASAS Goals & TABE Scores:
<p align="center">PTC - Clearwater</p> <p align="center">Check any programs of interest</p> <ul style="list-style-type: none"> <input type="checkbox"/> Accounting Operations <input type="checkbox"/> Administrative Office Specialist <input type="checkbox"/> Automotive Service Technology <input type="checkbox"/> Automotive Service Technology-Advanced <input type="checkbox"/> Baking and Pastry Arts <input type="checkbox"/> Barbering <input type="checkbox"/> Cabinetmaking <input type="checkbox"/> Child Care Operations <input type="checkbox"/> Computer Systems & Information Technology <input type="checkbox"/> Cosmetology <input type="checkbox"/> Diesel Systems Technician <input type="checkbox"/> Do it yourself Home Maintenance Electrical (short class) <input type="checkbox"/> Electricity <input type="checkbox"/> Electronic Systems Integration & Automation-Limited Voltage Technician <input type="checkbox"/> Heart saver CPR & AED Course (short evening class) <input type="checkbox"/> Honda FACT <input type="checkbox"/> HVAC with ESOL <input type="checkbox"/> Interior Decorating Services <input type="checkbox"/> Machining Technologies <input type="checkbox"/> Marine Service Technologies <input type="checkbox"/> Medical Administrative Specialist <input type="checkbox"/> .Net Application Development and Programming <input type="checkbox"/> Network Support Services <input type="checkbox"/> Photography (short class) <input type="checkbox"/> Practical Nursing <input type="checkbox"/> Professional Culinary Arts & Hospitality <input type="checkbox"/> Short Barbering (short class) <input type="checkbox"/> School Age Certification Training <input type="checkbox"/> Stage Production (A/V Technician) <input type="checkbox"/> Web Development <input type="checkbox"/> Welding Technology <input type="checkbox"/> Welding Technology-Advanced 	<p align="center">PTC - St. Petersburg</p> <p align="center">Check any programs of interest</p> <ul style="list-style-type: none"> <input type="checkbox"/> Accounting Operations <input type="checkbox"/> Administrative Office Specialist <input type="checkbox"/> AC/Refrigeration/Heating Tech <input type="checkbox"/> Advanced Manufacturing and Production Tech. <input type="checkbox"/> Automotive Collision Repair and Refinishing <input type="checkbox"/> Automotive Service Technology <input type="checkbox"/> Baking and Pastry <input type="checkbox"/> Building Construction Tech. <input type="checkbox"/> Building Trades & Construction Design Technology <input type="checkbox"/> Central Sterile Processing <input type="checkbox"/> Child Care Operations <input type="checkbox"/> Class "D" Security Officer Training (short class) <input type="checkbox"/> Commercial Class B Driving <input type="checkbox"/> Commercial Photography Tech. <input type="checkbox"/> Commercial Vehicle Driving <input type="checkbox"/> Cosmetology <input type="checkbox"/> Dental Assisting <input type="checkbox"/> Drafting <input type="checkbox"/> Early Childhood Education <input type="checkbox"/> Electricity <input type="checkbox"/> Emergency Medical Technician (EMT) <input type="checkbox"/> FAA Certified Drone Pilot <input type="checkbox"/> Facial Specialty <input type="checkbox"/> Jewelry Making and Repair <input type="checkbox"/> Medical Administrative Specialist <input type="checkbox"/> Medical Coder/Biller <input type="checkbox"/> Medical Record Transcribing <input type="checkbox"/> Nail Specialty <input type="checkbox"/> Network Support Services <input type="checkbox"/> Optometric Assisting <input type="checkbox"/> Pharmacy Technician <input type="checkbox"/> Plumbing Technology <input type="checkbox"/> Practical Nursing <input type="checkbox"/> Professional Culinary Arts & Hospitality <input type="checkbox"/> Public Works <input type="checkbox"/> School Age Cert. Training <input type="checkbox"/> Stage Production <input type="checkbox"/> Surgical Technology <input type="checkbox"/> Surveying Field Technician Training <input type="checkbox"/> Television Production Technology <input type="checkbox"/> Welding Technology <input type="checkbox"/> Welding Technology-Advanced

Pictorial Display of Career Technical Programs for ESOL

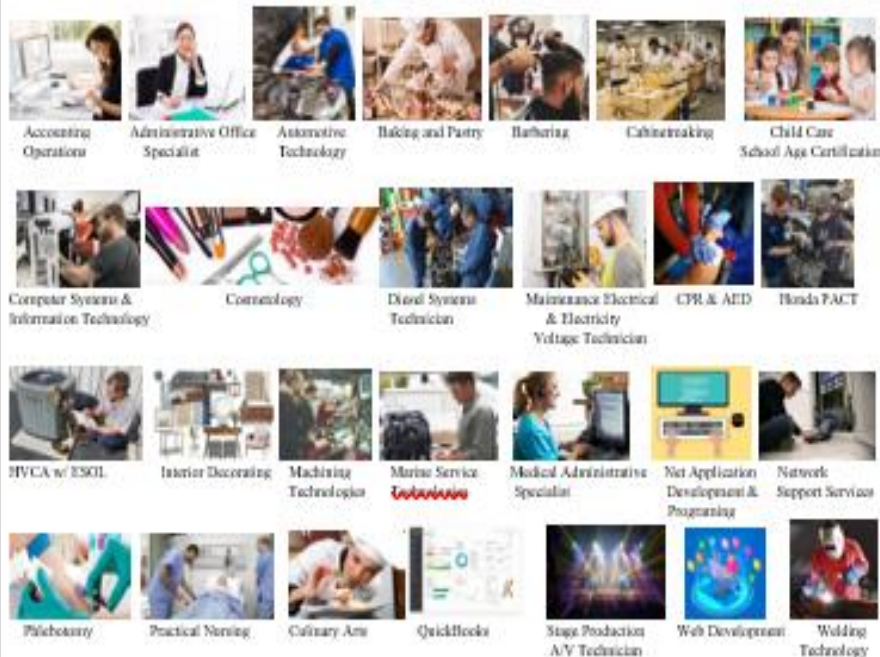


Adult Education Student Interest Survey

Date: _____

Name:	Adult Center & Class Location:
Phone:	Referring Teacher:
Email:	
Are you applying for Financial Aid? Yes <u>No</u>	CASAS Goals & TABE Scores:

PTC - Clearwater Campus



PTC - St Petersburg Campus



ESOL Career Pathway Board

CTE Might Be The Right Path For ME!



Baking and Pastry Arts Professional Culinary Arts & Hospitality

Beatriz
Carla
Andreyis
Virginia

Beatriz
Claudia



Cosmetology Skincare Nail Technology

Marisol
Yolanda
Ginna
Elena
Beatriz
Tatiana
Marianyeli
Diana G.
Virginia

Elena
Ginna



FMA Certified Diesel Tech Automotive Service Technology

Luis V.
Jacobo
Paul
Commercial Driving
Paul

Thermal Systems Technician
Jacobo
Paul



Child Care Operations Early Childhood Education

Marisol
Leticia S.
Ginna
Marianyeli

Ginna



Commercial Photography Tech

Santiago
Beatriz



Electricity Interior Decorating Services ITC AC with EBR

Luis V.
Marisol
Carla
Cintia

Luis V.
Luis R.
Jacobo



Advanced Manufacturing and Production Tech Marketing Technologies

Luis V.
Luis R.
Andreyis
Jorge

Jorge



Computer Systems & Information Technology

Elena
Luis V.
Luis R.
Luis V.
Leidy
Olivia
Andreyis

Leidy



Practical Nursing Dental Assisting Pharmacy

Ginna
Nancy
Alejandro
Carlos
Nancy
Ginna
Tatiana
Carlos
Claudia
Virginia
Nancy

Nancy



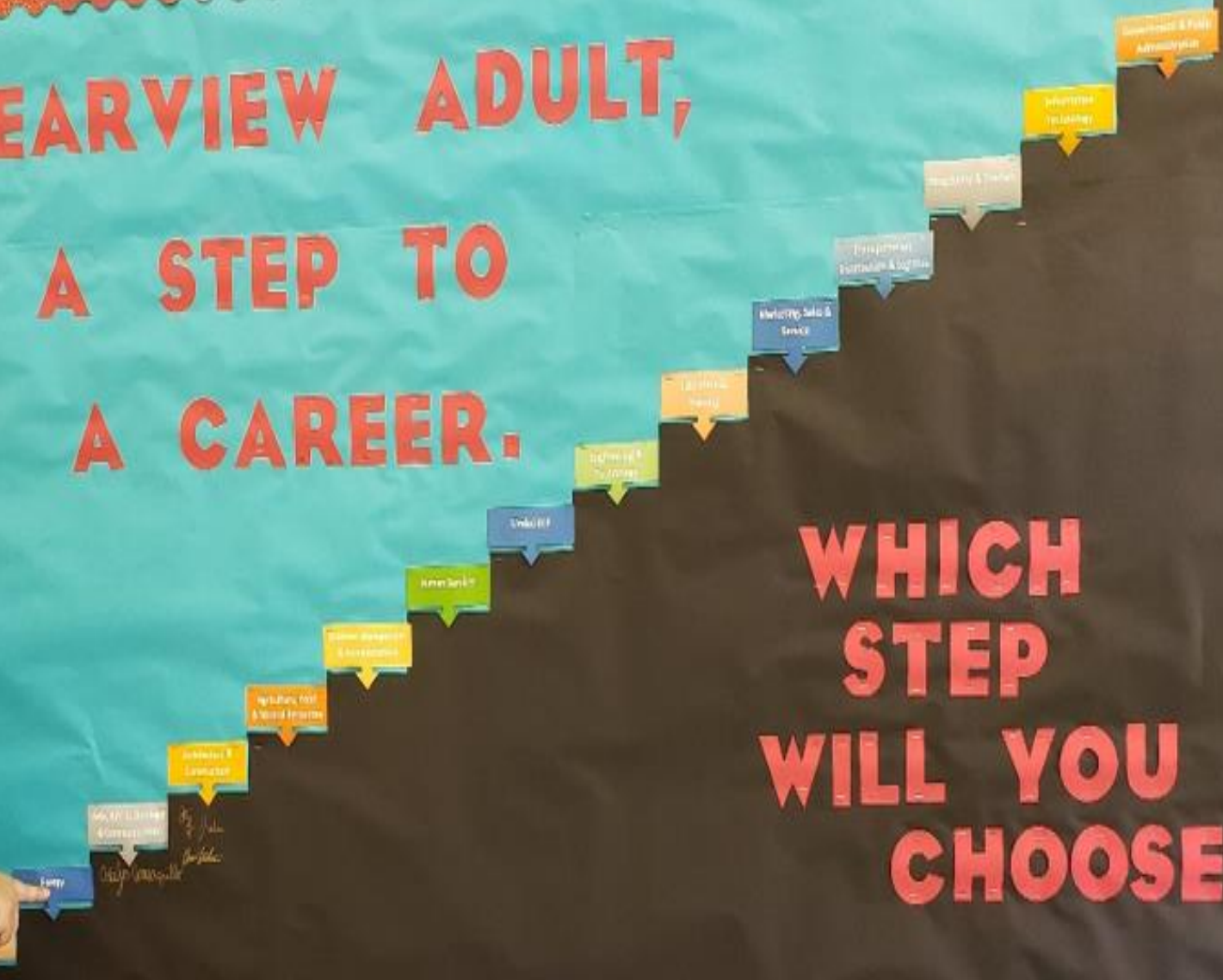
Electromechanical Systems Integration & Automation Limited Voltage Technician

Luis V.



**CLEARVIEW ADULT,
A STEP TO
A CAREER.**

**WHICH
STEP
WILL YOU
CHOOSE?**

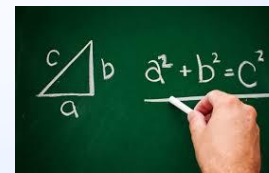
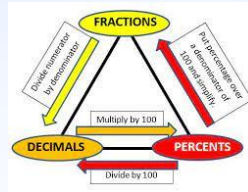


Oh! The Places You'll Go! and The Things You'll See All Because of CTAE



Summer Symposium Basic Skills Panel with ABE/GED & CTE teachers

- Relationship between fractions, decimals, percentages, and proportions
- Measurements: reading a ruler, measurement conversions(metric to English units), Celsius to Fahrenheit, scale comparisons
- Solving simple algebraic formulas, using area, perimeter, Pythagorean formula, circumference, volume

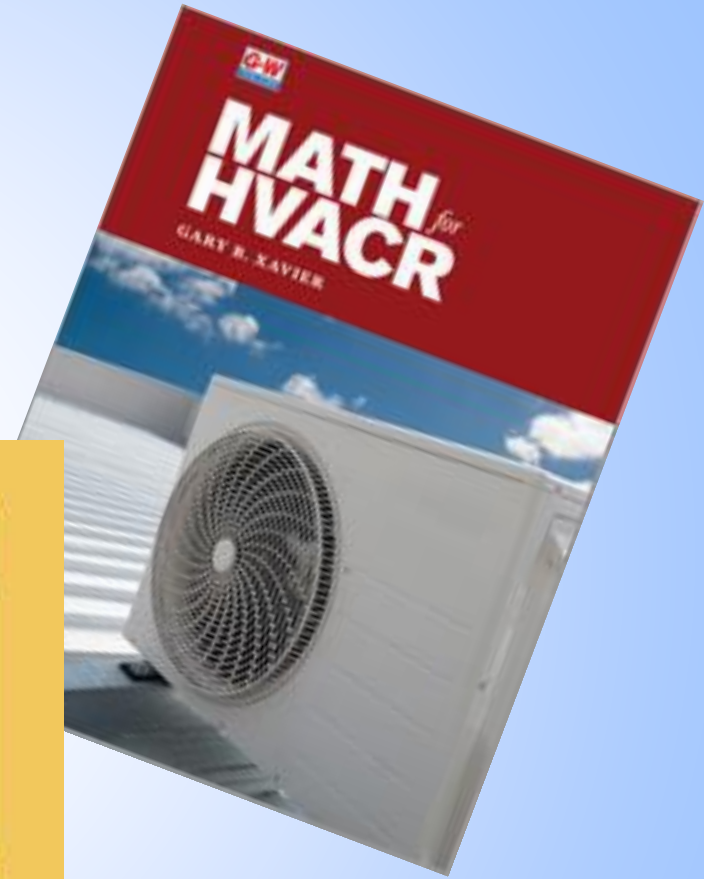
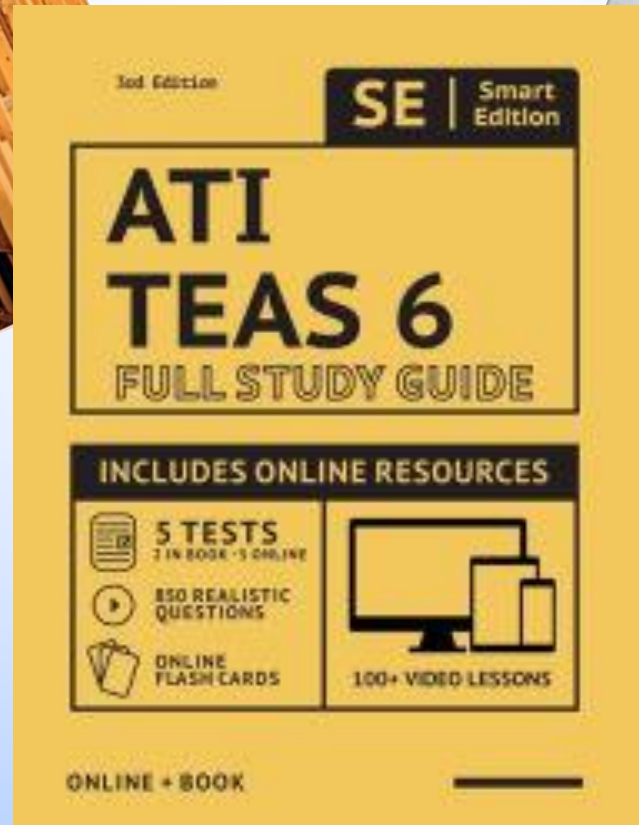
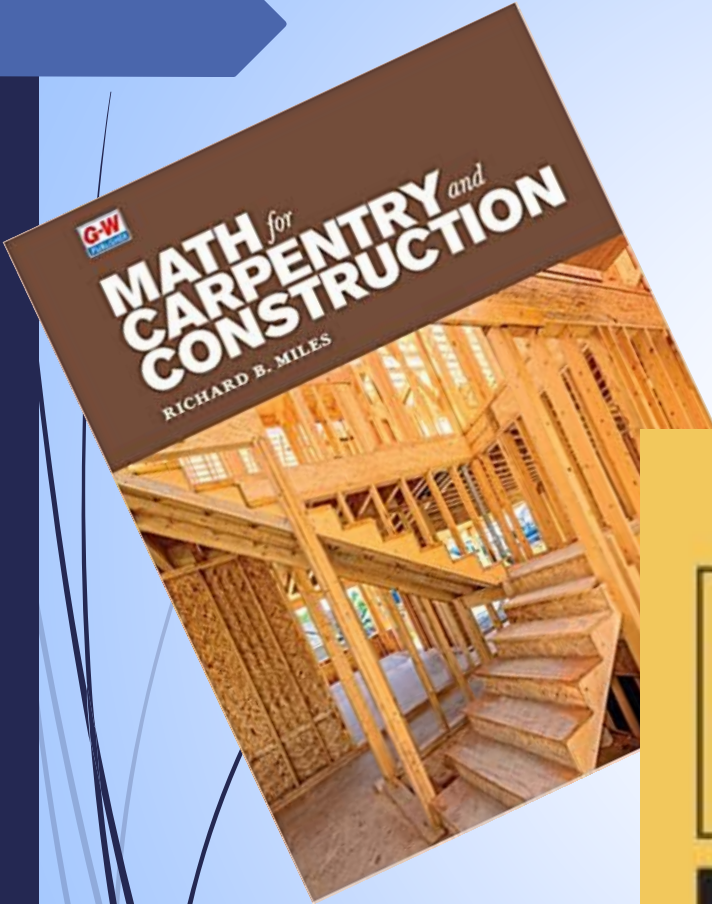


What skills do students need in their CTE programs that we can emphasize in the AGE classroom ?

- Estimation skills

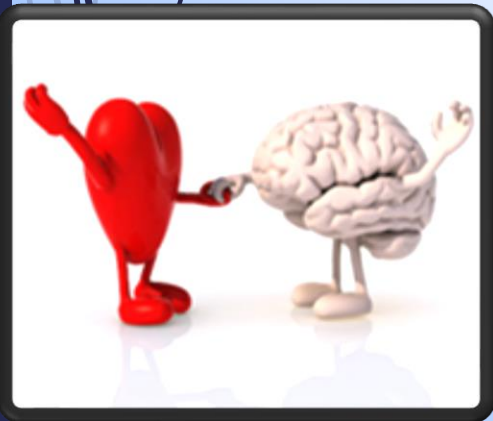
estimate	rounding
You estimate by using what you know or see to make a reasonable guess about an amount. 38 + 19 is about 60.	When rounding a number, you say what ten the number is closer to. 38 → 40 14 → 10 85 → 90

Career Cluster/IET Print Resources



Professional Development Changing Hearts and Minds

- Brought ideas/best practices back from DOE Career Pathways Steering Committees
- District wide trainings focused on career pathways/grant deliverables
- Hosted/presented ACP/IET webinars trainings from state/national providers
- Surveyed teachers' level of comfort with IET processes and content
- IET COP lesson plans- presented at Summer Symposium- integrated into classrooms



**What about
students?**

Who do we serve?

16 - 18	14%
19 - 24	21%
25 - 44	41%
45 - 54	13%
55 - 50	5%
60 +	7%

Best Recipe for Professional Development Success!



- “*Beg, borrow, steal*” and incorporate research based webinars into your trainings
- Include activities during and after trainings to ensure application of knowledge occurs
- Record and post trainings, materials and resources in accessible venues - One Drive or similar platform
- Ask conference and webinar attendees to share best practices at summer symposium and district trainings
- Offer incentives, stipends, or teacher recertification points
- Focus on requested teacher topics that support the district/state initiatives



Teacher **Pre-/Post** Training Surveys 65 Respondents Spring District Training 2021



Currently, about how much time in your classroom do students spend identifying career pathways or involved with workplace preparation activities?

Not often at all	13	Not post-surveyed
Occasionally	27	
Weekly	18	
Daily	7	

Can you define the term- Contextualized Curriculum?

No	24	(0)
Yes	41	(65)

Teacher **Pre-/Post** Training



What is your level of knowledge about the IET (Integrated Education and Training) Process?

Not at all knowledgeable	24	(2)
Slightly knowledgeable	36	(27)
Very knowledgeable	5	(28)
Extremely knowledgeable	0	(8)

Rate your level of knowledge /experience with collaborative and/or team teaching approach in the adult education classrooms?

Not at all knowledgeable	8	(0)
Slightly knowledgeable	38	(24)
Very knowledgeable	17	(33)
Extremely knowledgeable	2	(8)

Teacher *Pre/Post* - Training



What area(s) do you feel will be the most difficult step(s) in successfully integrating workplace preparational and curriculum into your classroom ?

Planning and developing content	34	(31)
Knowledge and management of software resources	14	(13)
Maintaining student engagement	9	(11)
Coordination with other teachers	8	(10)

How proficient are you in finding or developing contextualized content for your ABE, GED, AHS, or ESOL classes

Not at all proficient	19	(1)
Slightly proficient	20	(29)
Proficient	21	(25)
Very proficient	5	(10)

Community of Practice Integrated Education & Training

Lessons for These Careers

➤ **Architecture & Construction**

- *Building Construction Tech, Machining Tech Cabinet Making, Plumbing, Electricity, HVAC*

➤ **Arts & Audio Visual**

- *Stage Production*

➤ **Business Management & Administration**

- *Administrative Assistant, Blueprint for Professional Success*

➤ **Hospitality and Tourism**

- *Culinary Arts, Event Planning*

➤ **Information Technology**

- *CIST*

➤ **Manufacturing**

- *Jewelry Design & Repair, Machining Technology*


➤ **Marketing Sales and Service**


- *Business Operations- Marketing, Event Planning*


➤ **Health Science**


- *Phlebotomy, LPN, EMT, Medical Billing & Coding,*
- *Dental Assistant, Pharmacy Tech, Central Sterile Processing, Surgical Tech*





 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

IET Community of Practice Resources



Name ▾



Central Sterile Processing - PTC



EMT - PTC



Pharmacy Technician - PTC



Surgical Technician - PTC



COP IET Contextualized Lesson Plans

Learning Sciences International
LEARNING AND PERFORMANCE MANAGEMENT

Lesson Plan Template

Career Cluster:
Lesson Name:
Standard- CTE:
Standard- ABE/ESOL/AHS:
NRS Level/Program (ABE/ESOL/AHS):
Lesson length:
Materials:

Targeted (PTC/SPC) Career:

Learning Targets *(from scale)*

A- Insert target here	(2.0)
B- Insert target here	(3.0)
C- Insert target here	(4.0)

Learning Target	Student Evidence at Target Level	Instructional Strategy	Technique	Student Evidence (Outcome of Using Strategy)	Time	Potential Adaptations
A						
B						
C						

Resources

- ✓ Community of Practice formed with 6 curriculum writers
- ✓ Created 90 IET lessons for specific careers offered through local college programs
- ✓ Lessons for all AGE programs at varying functioning levels on flash and One Drive
- ✓ Utilized a Marzano lesson plan template revised to include CTE standards with an emphasis on contextualized curriculum

Community of Practice IET Lesson Plan

Lesson Plan Template

Career Cluster: Arts and Audio/Visual

Targeted (PTC) Career: Stage Production

Lesson Name: Area and Perimeter of Rectangles and Squares.

Standard- CTE:03.0 Demonstrate appropriate math skills- 03.01 Solve problems for volume, weight, area, circumference and perimeter for rectangles, squares, and cylinders.

Standard- ABE Math: 3.4 Solve mathematical and real-world problems involving area, surface area, and volume.

a) Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes.

Standard- ABE Math: 2.6 Recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.

a) Solve real world and mathematical problems involving perimeters of polygons.

- Find the perimeter given the side lengths.
- Find an unknown side length.

b) Exhibit rectangles with the same perimeter and different areas or with the same area and different perimeters.

NRS Level/Program: ABE Level 3

Lesson length: 50 minutes

Materials: White board, projector, power point, worksheets, notebook paper, pencil, dry erase markers, rulers, measuring tapes.

Learning Targets *(from scale)*

A-	Recognize area as an attribute of plane figures and understand concepts of area measurement. <ul style="list-style-type: none">• A square with side length 1 unit, called "a unit square," is said to have "one square unit" of area, and can be used to measure area.• A plane figure which can be covered without gaps or overlaps by (n) unit squares is said to have an area of (n) square units.	(2.0)
	Measure areas by counting unit squares (square cm, square m., square in., square ft., and non-specific units). Relate area to the operations of multiplication and addition. <ul style="list-style-type: none">• Multiply side lengths to find areas of rectangles with whole number side lengths in the context of solving real world and mathematical problems.	
	Solve real world and mathematical problems involving perimeters of polygons. <ul style="list-style-type: none">• Find the perimeter given the side lengths.	