# CTE Career Cluster Professional Learning Communities (Cluster PLCs)

"Integrating Workforce, Academics and the Environment in Construction"

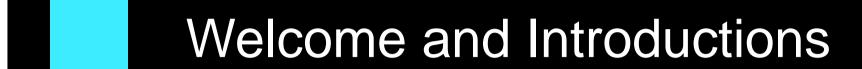
**Architecture & Construction** 

April 6, 2021





# AGENDA



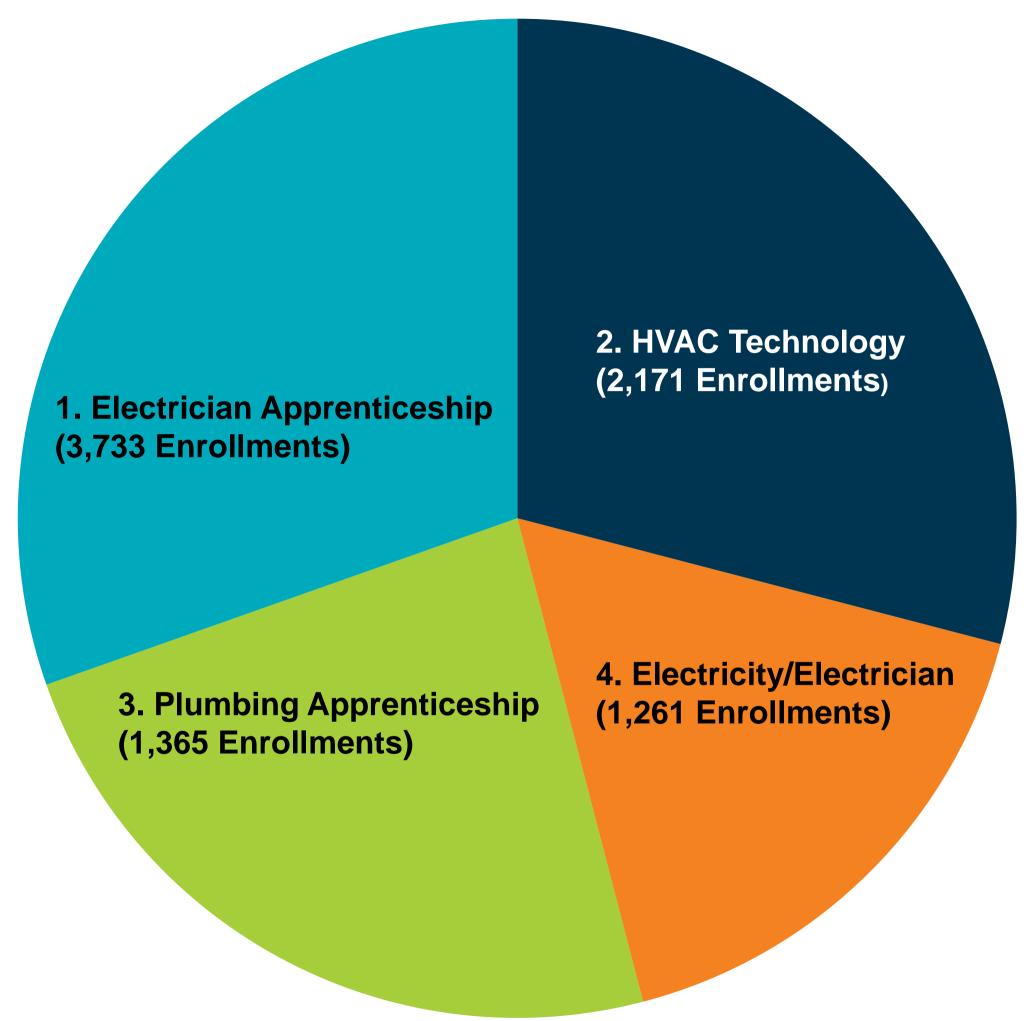
Guest Speaker Overview

Guest Speaker Best Practices

Collaboration







# Top 2019-20 Postsecondary Construction Trade Programs

(Out of 13,111 District Postsecondary Programs)





AAA What are you looking for?

FEATURED TOPICS

ACADEMICS

SCHOOLS

TEACHING

**ACCOUNTABILITY** 

POLICY

FINANCE

Home | Academics | Career & Adult Education | Perkins V

## PERKINS

Accountability Measures

Comprehensive Local Needs Assessment

**Funding Opportunities** 

**Funding Opportunities Archive** 

Invoicing

Perkins IV Resources Archives

Programs of Study

#### **Perkins V**

The Strengthening Career and Technical Education for the 21st Century Act (SCATE) was signed into law on July 31, 2018. The Act amends the Carl D. Perkins Career and Technical Education (Perkins IV) Act of 2006 and reauthorizes Perkins for six years. The law took effect July 1, 2019. Florida's Perkins Four-Year State Plan was approved by the U.S. Department of Education in June of 2020.

Perkins serves as the primary federal investment in Career and Technical Education.

#### Florida's Perkins V State Plan

- Executive Summary of Florida's 2020-2024 State Plan (PDF)
- Florida's 2020-2024 State Plan (PDF)

#### Resources

#### The Law

Perkins V Text

https://www.fldoe.org/academics/career-adult-edu/perkins/ProgramsofStudy.stml



Α Α	В	С	D	E	F	G	Н	I
Programs of	Study Alignm	ent Matrix						
Purpose:								'
The purpose of this d	ocument is to show th	e alignment between CT	E programs at differen	t educational levels for	r the implementaiton o	f programs of study, a	requirement for all Perkin	s eligible recipients.
	Must have one high school program per		Only one of these is required per program of study. Multiple educational levels is				Not required, but	
			desireable.				desireable	
	Secondary		Clock Hour		College Credit		Baccelaureate	
							(Not Perkins Eligible)	
Cluster - Secondary	Prog Number -	Prog Name -	Prog Number -	Prog Name - Clock	CIP Number -	Prog Name - College		Notes:
	Secondary -	Secondary -	Clock Hour	Hour ▼	College Credit 🔻	Credit 🔻	Prog Name	
Architecture &	8721500	Painting and	V200600	Interior Decorating	1450040801	AS-Interior Design		
Construction		Decorating		Services (Arts, A/V		Technology (Arts, A/V		
				Tech. & Comm.)		Tech. & Comm.)		
Architecture &	8101100	Architectural	C100300	Computer-Aided	1604090100	AS-Architectural		
Construction		Drafting		Drawing and		Design and		
				Modeling		Construction		
						Technology		
Architecture &	8101100	Architectural	C100200	Drafting	1604090100	AS-Architectural		
Construction		Drafting				Design and		
						Construction		
						Technology		
Architecture &	8727200	Electricity	C700100	Electronic System	1615030304	AS-Energy		
Construction				Integration &		Management and		
				Automation		Controls Technology		
						(Energy)		
Architecture &	8723000	Air-Conditioning,	C400400	Heating, Ventilation,	0615050100	AS-Air Conditioning,		
Construction		Refrigeration and		Air-		Refrigeration, &		
		Heating Technology		Conditioning/Refrige		Heating (ACR&H)		
				ration		Systems Technology;		
				_	•	_		
Architecture &	8723000	Air-Conditioning,	C400400	Heating, Ventilation,	0615050102	CCC-ACR&H		
Construction		Refrigeration and		Air-		Technician		
		Heating Technology		Conditioning/Refrige				
CTE Program Alignment +							1	

https://www.fldoe.org/core/fileparse.php/18815/urlt/ProgramsStudy-AlignmentMatrix.xlsx



# Jared Taylor, PMP

Walton Works Center for Excellence Construction Trades Program Manager

**NW FL State College** 

Hal Lunsford, Owner/President Lunsford Environmental, LLC Tallahassee, FL







# Getting to know you... (Jared Taylor & Hal Lunsford)

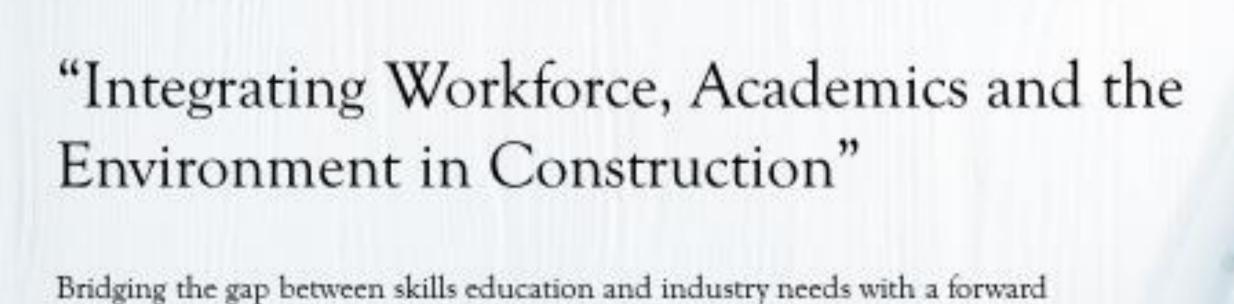
Background

Teaching Career



Fun Facts

Today's Topic



focus on environmental issues and shifting cultural stigmas

Jared Taylor, PMP
Northwest Florida State College
Construction Trades Program Manager
taylo 122@norfac.edu

Hal Lunaford
Lunsford Environmental
Owner/President
lunafordsnyironmental@email.com





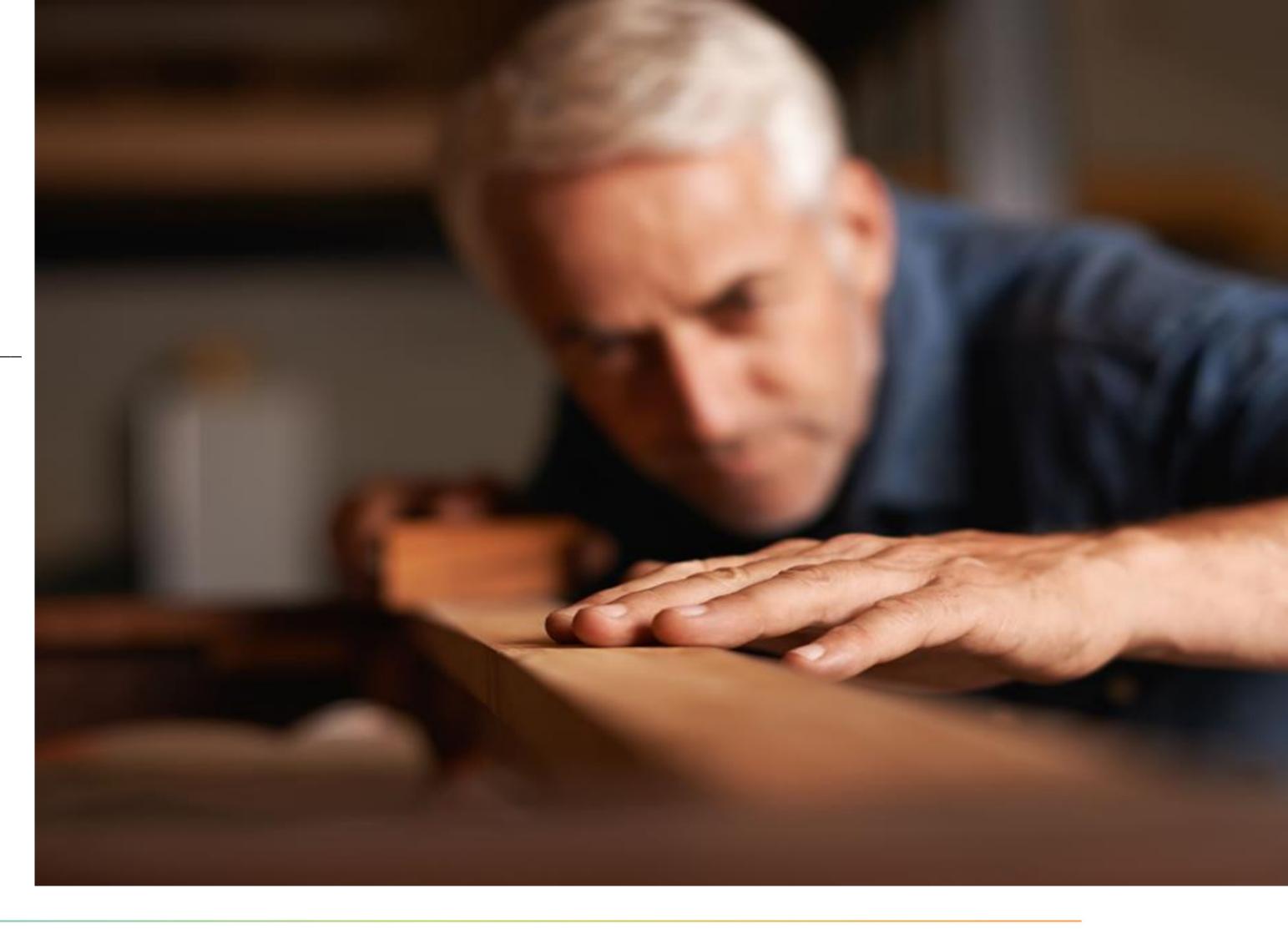
#### The Issues

- Skilled labor
- Society
- Secondary Education
- Effect on Environment
- Outdated Training Platforms/Curriculum
  - The Truth Hurts...
  - Cape and Perkins
  - Industry Recognition is Relative

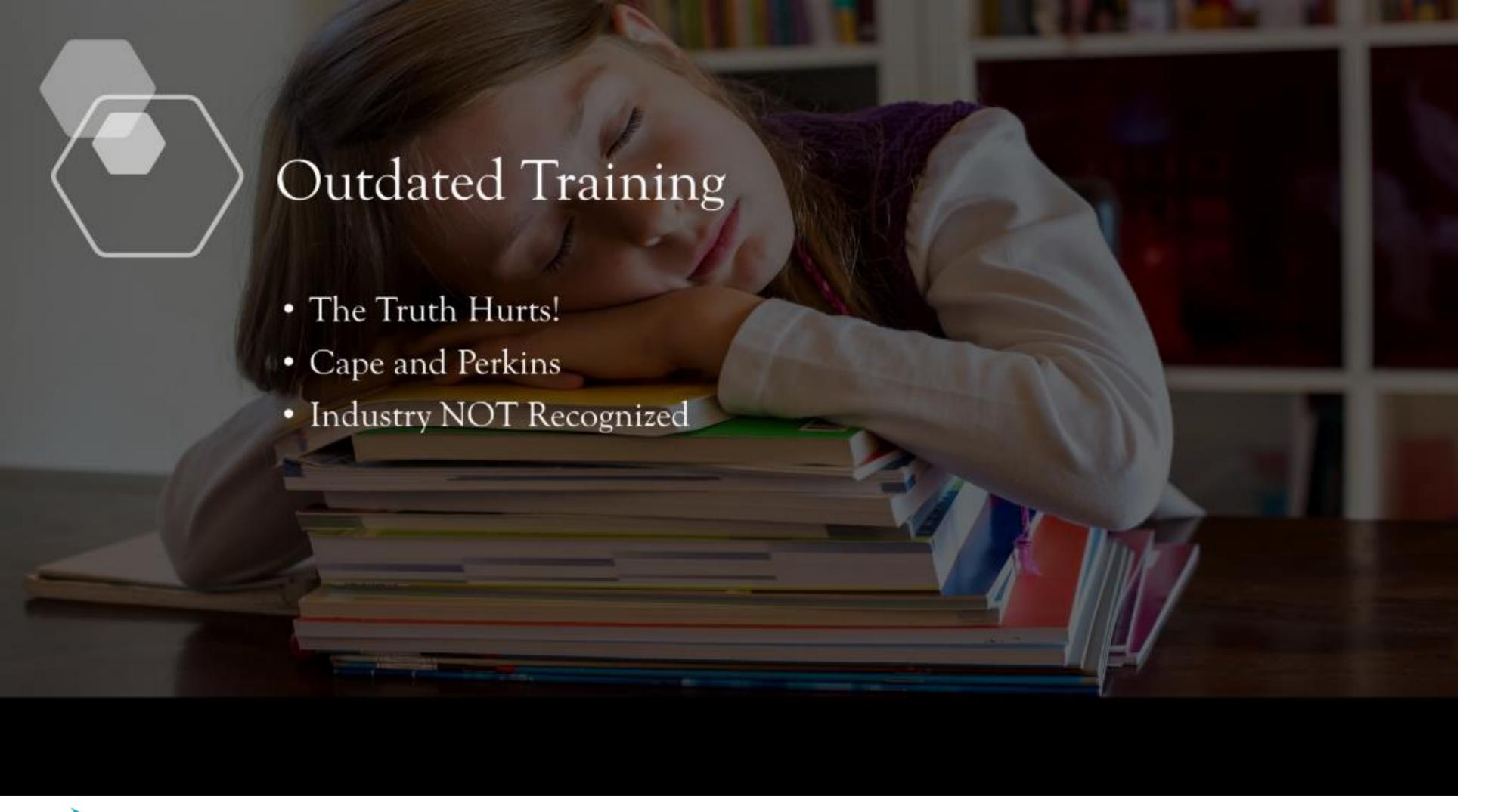


#### Skilled Labor

- Retiring out
- Negative Stigmas
  - "Only the bottom of the barrel"
- Combating Greed vs Progress
  - "The 1099 Culture"
- Training Pipelines
  - No career Lattices











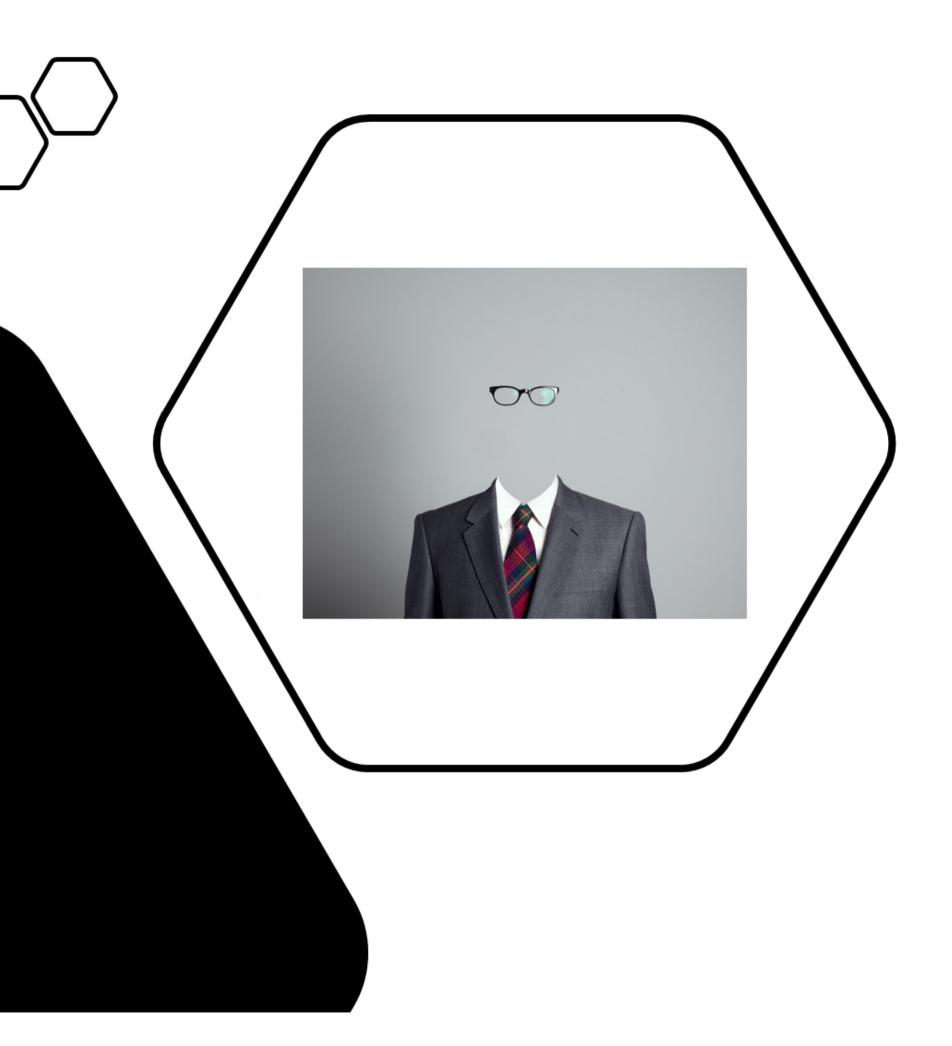
# Secondary Education

- AP and Honors
- Tech Heavy
- Promotes College but selectively
- Unrealistic and Ineffective



# Society

- Political
- Socioeconomic
- Gender
- Ethics
- Morals and Priorities
- Generational Shifts





## Environment

- · Growth vs Need
  - · Buildable lots and developing land
- · Contribution to Pollution
  - 40% of Energy Consumption
  - · Millions of tons of sediment
  - Impaired water bodies
- Depleting Resources
  - Lumber price up 300%
- · Reinforced Unsustainable Practices
  - "This is how we've always done it!"



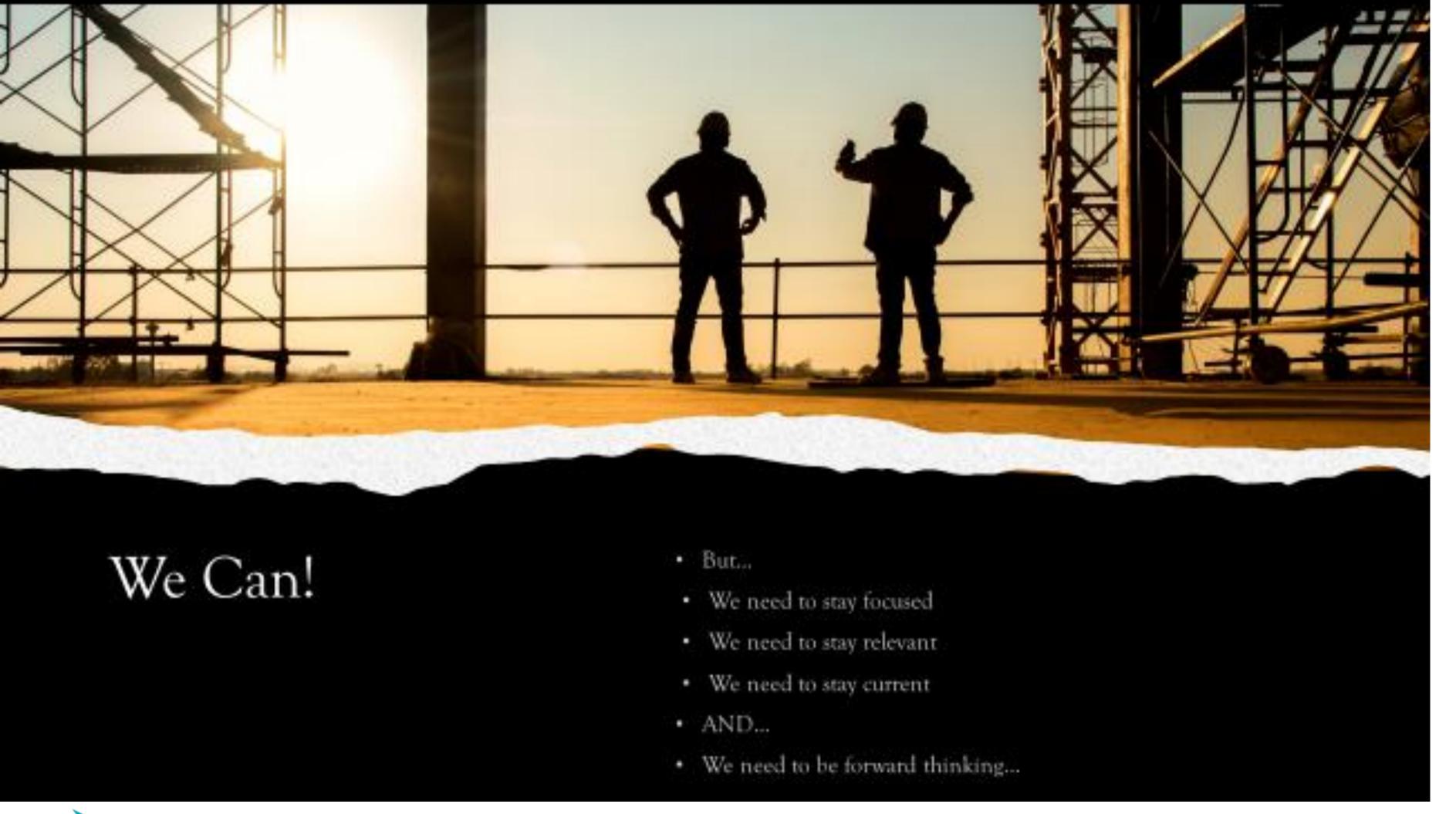




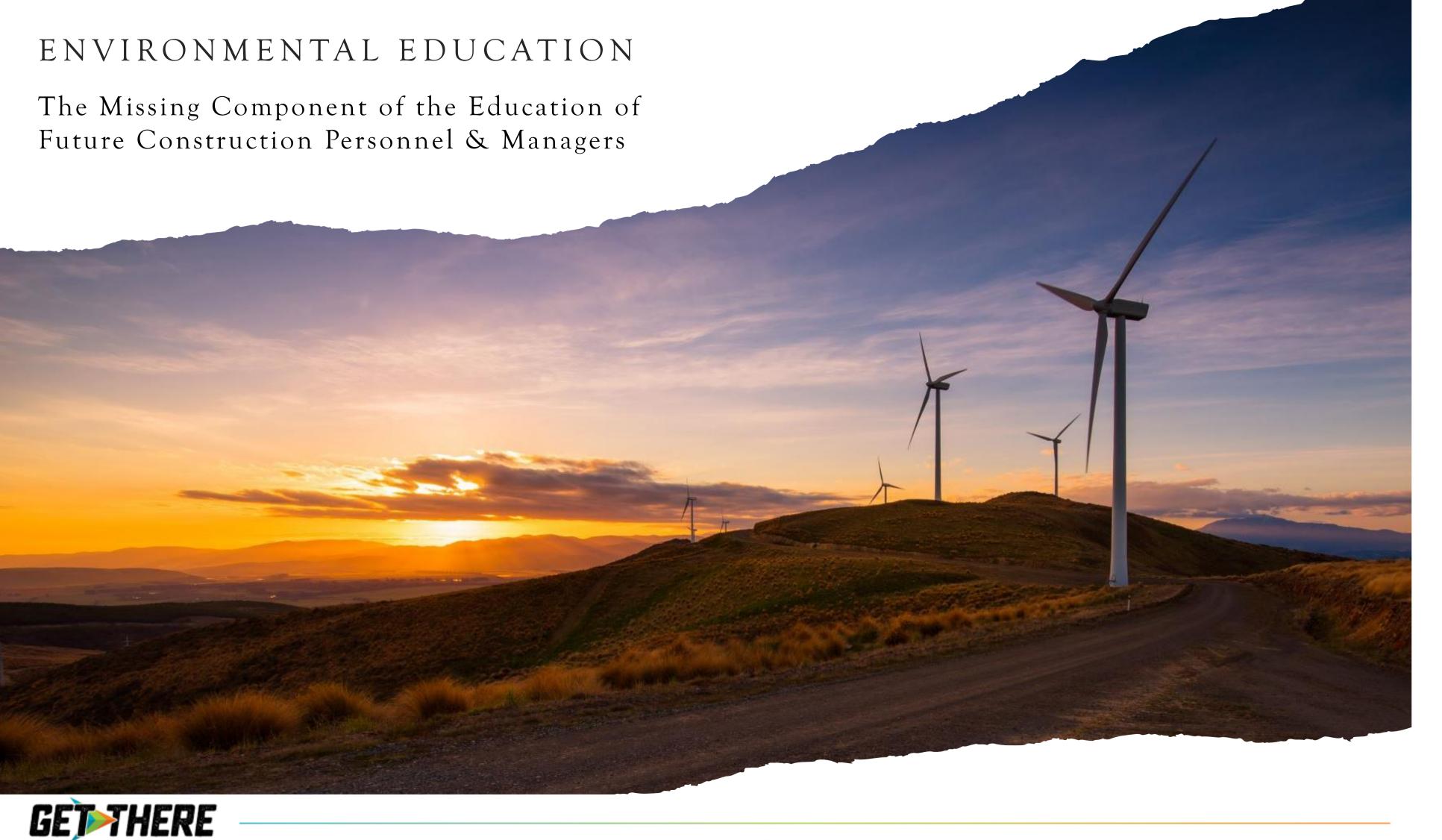
#### The Fix

- Building Construction Specialist
  - Adaptable Framework
  - Best Practices
  - Integrates
- Combating Issues
  - Education
  - Partnerships
  - Feedback and Involvement
- Thinking Outside the Box
- Integrating Other Programs
  - CareerSource
  - BIA and Organizations
  - Faith Based and Non-Profits









#### RETROSPECT

Looking into the past, Florida's construction personnel were never required to include in their education anything about:

- Environment or environmental regulations
- Sustainability or sustainable practices
- Energy efficiencies of constructed structures
- Water reduction and surface water protection
- Carbon reduction and global warming
- Solid waste minimization, reuse, and recycling





## FUTURE OF CONSTRUCTION

Will require construction personnel to have knowledge of:

Environmental regulations, permitting, inspections, and compliance

Sustainability development practices

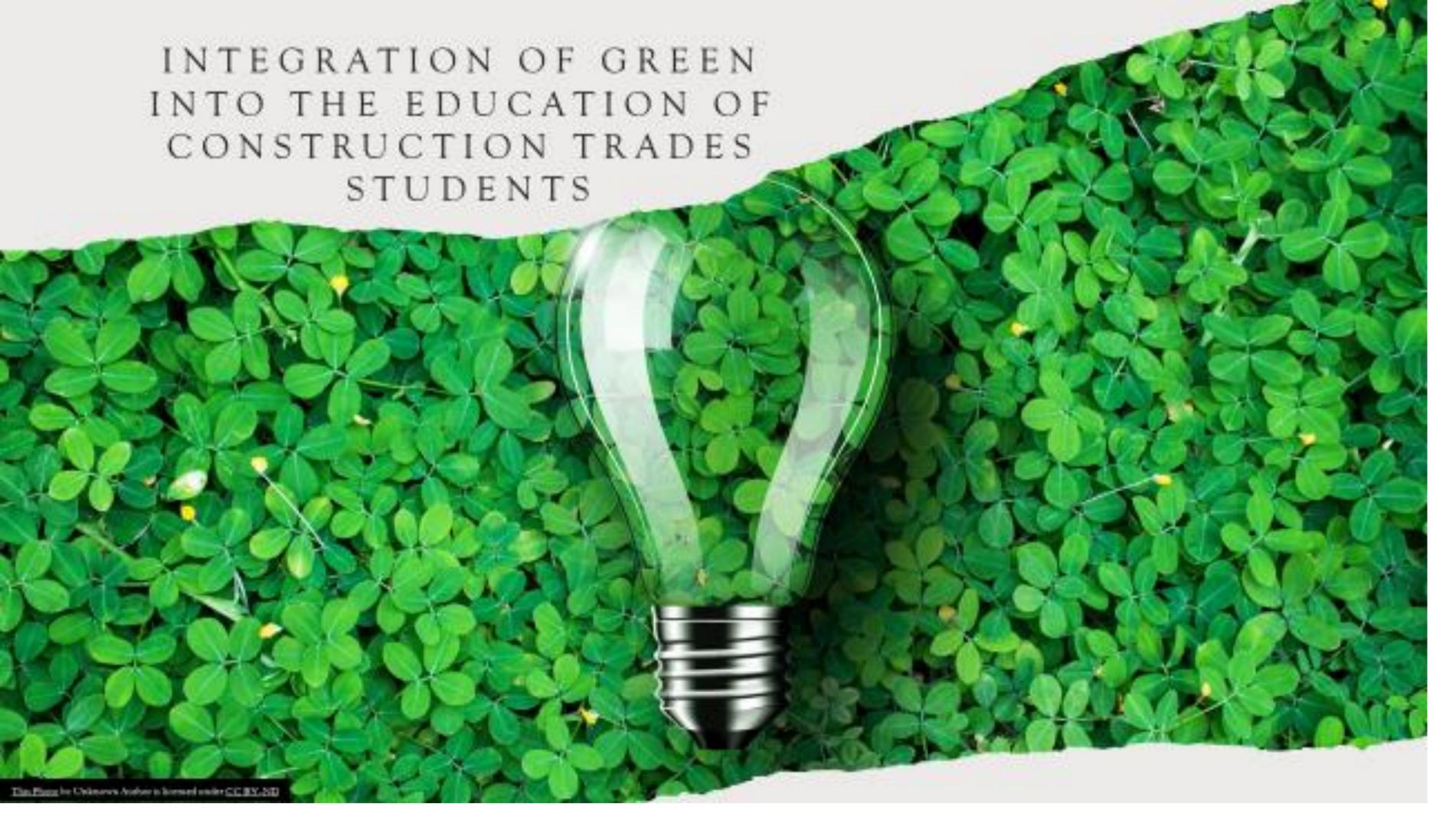
Energy and water efficiencies

Waste reduction

"Construction firms that refuse or ignore the growing trends of building green will be left behind in our new century." American Society for Engineering Education, 2017









## GREEN OR ENVIRONMENTAL LITERACY

Environmental literacy needs to be incorporated into all aspects of higher education:

- Promote interdisciplinary majors/certificates that address environmental literacy in students
- Promote campus organizations that work towards developing environmental literacy in students
- Facilitate professional development for facility to incorporate aspects
  of environmental literacy into courses across the institution, not just
  science courses/departments
- Coordinate sustainability initiatives campus wide; such as, water use, energy use, recycling, etc.

\*See the (Florida Environmental Literacy Plan, 2005)







#### WHERE DO WE GET STARTED?

- Identify grants and monies needed for a program
- Set up goals for construction students in their education to include environmental components in their construction classes
- Integrate green development and environmental sustainability to become part of their way thinking and problem solving



# col-lab-o-ra-tion







# Resources

Jared Taylor, PMP
Northwest Florida State College
Construction Trades Program Manager
taylo122@nwfsc.edu

Hal Lunsford
Lunsford Environmental
Owner/President
lunsfordenvironmental@gmail.com









# Resources (continued)...

- Northwest Florida State College: https://www.nwfsc.edu/
- Lunsford Environmental, LLC: http://lunsfordenvironmental.com/
- LEED Website: http://leed.usgbc.org/
- GET THERE Florida: https://gettherefl.com/



# Thank You!

David Mueller

State Supervisor for:

Architecture & Construction;

Energy;

Marketing, Sales & Service

David.Mueller@fldoe.org





# CTE Career Cluster Professional Learning Communities (Cluster PLCs)



