

# Civil Construction Partnership

**Governor's Workforce Cabinet**

4/25/2024

# Let Us Introduce Ourselves!



-Ms. Kathy Neary

Chief Strategy & Business

Engagement Officer

Center of Workforce Innovations



-Mrs. Audra Peterson

Director

Porter County Career & Technical Education  
Center



-Mr. Kevin Comerford

Director

Professional Development, Construction,  
Advancement Foundation.



PORTER COUNTY  
**CAREER+  
TECHNICAL  
EDUCATION**

## **Problem- Job openings and the construction labor shortage**

**As of January 2023, there are nearly 250,000 job openings in the construction industry nationwide. The Association of Builders and Contractors estimates over 340,000 new workers will need to be hired in 2024 to keep up with demand. Keep in mind that number is in addition to normal hiring activities, bringing the grand total of the construction labor shortage to 546,000.**



# Construction Advancement Foundation

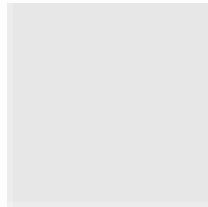
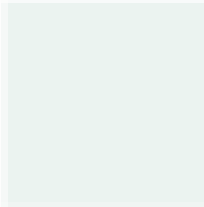
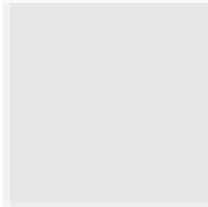
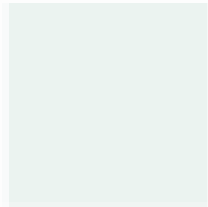
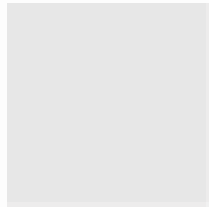
## What is the Construction Advancement Foundation

- CAF is a Trade Association of Construction Contractors
- Industry Advancement Foundation
- Represent over 550 contributing members (Contractors) in NWI
- Civil/Heavy Highway, Industrial, Commercial, Mixed Use, Institutional
- Contractors hire men and women from skilled trades (i.e Operating Engineers)
- CAF Initiatives:
  - Workforce Development
  - Industry Promotion / Recruitment
  - Professional Development Programming (Apprentice-Executive)
  - Safety Training



# Investment in Improving Infrastructure

- **Indiana passed long-term infrastructure funding in 2017 (Holcomb)**
  - **20-year plan to improve Indiana's roads and bridges**
- **Infrastructure Investment and Jobs Act (IIJA) Signed into Law in 2021**
  - **Authorizes \$1.2 trillion for U.S. transportation and infrastructure projects**
  - **Indiana – Nearly \$8 Billion guaranteed for Indiana and opportunities for more**



# Investment in Improving Infrastructure

## **Employer Need**

- Heavy Civil/Highway Contractors and INDOT need a qualified workforce
- Civil Construction Projects are Unique
  - Roads, Bridges, Airports, Underground, Sanitary, Navigable Waterways, etc.

## **Building Bridges**

- Civil Construction program in Hamilton Heights (Eric Fisher – Indiana Constructors Inc.)
- Partnership with CWI & Porter County Career Center
- Program is scheduled to start in the Fall of 2024 at Chesterton High School
  - 1<sup>st</sup> Civil Construction Program in Northwest Indiana



# Civil Construction Program

## New Addition

Porter County Career and Technical Education

## Host Site

Duneland School Corporation

The logo is a red circle with a white crescent shape inside, containing the text 'CENTER OF WORKFORCE INNOVATIONS' in black.

CENTER OF  
WORKFORCE  
INNOVATIONS

# High Wage/High Demand Needs in NWI through 2028

Landscape Architects	58
Surveyors	59
Civil Engineers	434
Civil Engineering Technologists and Technicians	112
Surveying and Mapping Technicians	128
Landscaping and Groundskeeping Workers	2,879
Paving, Surfacing, & Tamping Equipment Operators	79
Operating Engineers and Other Construction Equipment Operators	1,378
Crane and Tower Operators	360
First-Line Supervisors of Construction Trades & Extraction Workers	1,902
Brickmasons, Blockmasons, and Stonemasons	895
Carpenters	2,506
Construction Laborers	4,221
Construction Equipment Operators	1,399
Pipelayers, Plumbers, Pipefitters, and Steamfitters	1,355
Roofers	394
Sheet Metal Workers	168
Structural Iron and Steel Workers	377
Helpers, Construction Trades	637
Highway Maintenance Workers	532



**Total = 17,000+**





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**A Solution: Create training and development programs**

By investing in training and development programs designed to help construction workers develop new skills, employers can retain top employees longer and increase the network of contacts for different areas of specialty.

These types of training programs can also lead to other areas of improvement across the business world, including:

- Reduced job site accidents and injuries as a result of increased safety training
- Increased productivity \$ higher quality of work completed at construction projects
- Improved teamwork, including the ability to fill gaps by cross-trained employees
- Increased interest from future job seekers (and client) referrals

# Education Breakdown

## Education Breakdown

Education Level	Unique Postings	% of Total
No Education Listed	135	49%
High school or GED	74	27%
Associate degree	7	3%
Bachelor's degree	74	27%
Master's degree	4	1%
Ph.D. or professional degree	0	0%

## Experience Breakdown

Minimum Experience	Unique Postings	% of Total
No Experience Listed	128	46%
0 - 1 Years	33	12%
2 - 3 Years	46	17%
4 - 6 Years	48	17%
7 - 9 Years	6	2%
10+ Years	17	6%





# PORTER COUNTY CAREER+ TECHNICAL EDUCATION



## Top Qualifications

Qualification	Postings with Qualification
Valid Driver's License	30
Project Management Professional Certification	15
10-Hour OSHA General Industry Card	5
Professional Engineer (PE) License	4
30-Hour OSHA General Industry Card	2
Security Clearance	2
Commercial Driver's License (CDL)	2
CDL Class B License	1
CDL Class A License	1
Cardiopulmonary Resuscitation (CPR) Certification	1
First Aid Certification	1
NICET Certification (National Institute For Certification In Engin	1
Certified Emergency Manager	1
Certified Safety Professional	1
Master Of Business Administration (MBA)	1



# Duneland Partnership

- **Provide Classroom Space**
  - Co-Space for Classroom with Laborers Union with plans of a building being built at “Sandbox” location.
- **Provide Teacher/Instructor**
  - Instructor will be paid for by Duneland School Corp.
- **Provide Space for “Sandbox”**
- **This will be done in partnership with Porter County Parks Department**



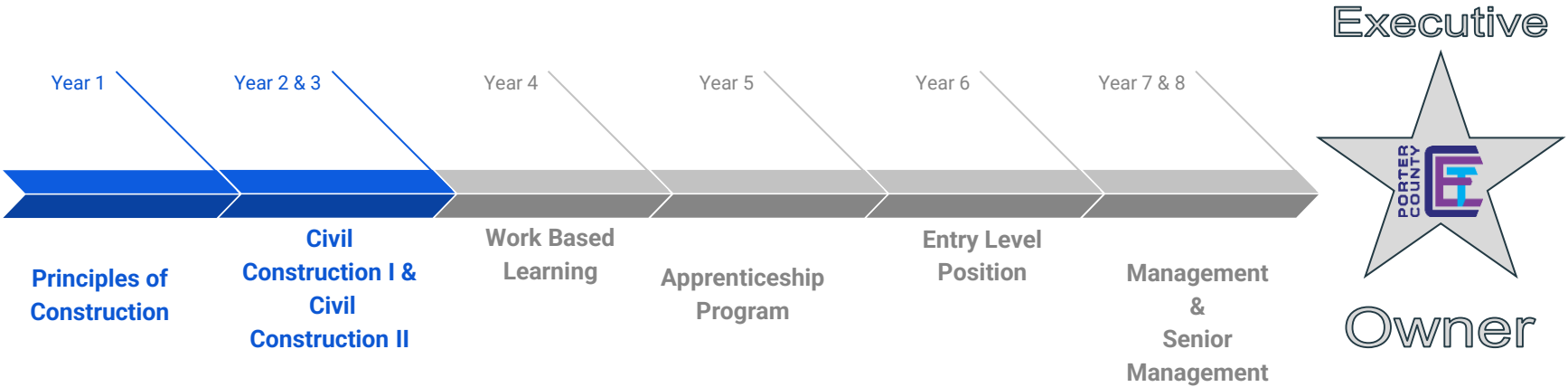
***DUNELAND***  
SCHOOL CORPORATION



PORTER  
COUNTY



# Civil Construction Career Pathway



# Curriculum



- Soil Testing
- Slump Testing/Concrete
- Paving
- Surveying
- Labor Work
- Heavy Equipment Operation
- Excavation
- Dual Credits
- Certifications
- Apprenticeship Credit
- Internships



# Course Description

## The Civil Construction Pathway covers orientation to

- The trades
- Identification of equipment used in heavy highway construction
- Safety
- Work-zone safety
- Soils
- Sites
- Excavation math
- Interpreting civil drawing.



## The Advanced Civil Construction continues to build upon the knowledge and skills learned in the fundamentals course such as

- Rigging procedures
- Crane Safety
- Emergency Procedures
- Basic Principles of Cranes
- Crane Communications
- Introduction to earth moving
- Finishing & Grading
- Trenching & Excavating
- Plant operations
- Paving
- Horizontal formwork & Vertical formwork

# Program Sequence

- **Year 1**

**Dual Credits**

7130 Principles of Construction  
 7123 Construction Trades General Carpentry  
 7122 Construction Trades: Framing and Finishing  
 Certifications: NCCER Core, Carpentry Level 1, Framing and Finishing

BCTI 100  
 BCTI 101, 102  
 BCTI 103, 104

- **Year 2**

7121 Civil construction Fundamentals  
 7118 Advanced Civil Construction  
 7240 Civil Construction Capstone  
 Certifications: NCCER Heavy Highway Level 1 and Level 2

BCTI 110, 120  
 BCTI 121  
 BCTI 122, 123, 160

There are 3 programs countywide offering the Year 1 sequence.





# What is the “Sandbox” You Ask??

- A place for educating students about heavy equipment in a classroom setting. It gives students the opportunity to learn about heavy machinery and related industries through a hands-on learning experience.





# Civil Construction Community Partnerships

- LaPorte Construction
- Short Elliott Hendrickson (SEH)
- Indiana Constructors, Inc
- Construction Advancement Foundation (CAF)
- G.E. Marshall
- Falk PLI
- E&B Paving
- Duneland Group
- Central Rent-A-Crane
- Bowen Engineering
- Operators Union Local 150
- Walsh Construction
- Milestone
- Euchlid Chemical Company

- DLZ Industrial (Surveying/Materials Testing/Engineering)
- F.H. Passion (Heavy Highway Construction)
- Traffic Control Specialist (Heavy Highway and Road)
- Advanced Engineering Services (AES)
- ICC Construction
- Ellas Construction
- Laborers Union Locals 41 & 81
- Tech Engineers Union
- Superior Construction
- Rieth Riley
- Grimmer
- Berglund
- Westside Equipment\*\*



# Scholarships & Work Based Learning Opportunities

Just to name a few.



Indiana Constructors, Inc.

- Qualified students can receive up to \$4,000 per academic year.



Asphalt Pavement Association of  
Indiana

- In 2023, APAI awarded \$45,000 in scholarships to deserving young men and women.



Indiana Department of Transportation

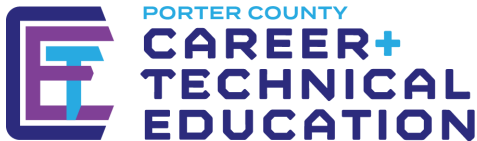
- INDOT recipients receive \$3,125 per semester and work in paid internships during the summer. After graduation, recipients receive priority hiring within the agency.



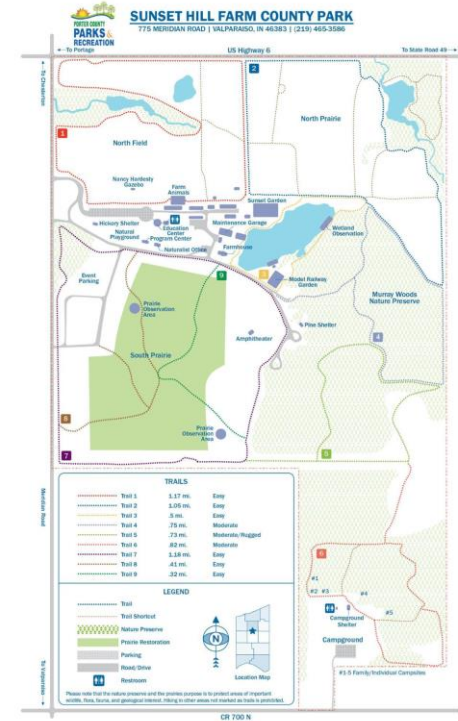
-Work Based Learning-



# Upcoming Project & Plans



- **Sunset Hill Farm**
  - Working with PCRC to upgrade
    - Buildings
    - Roads
    - Park Paths
    - Playground Area
    - Amphitheater

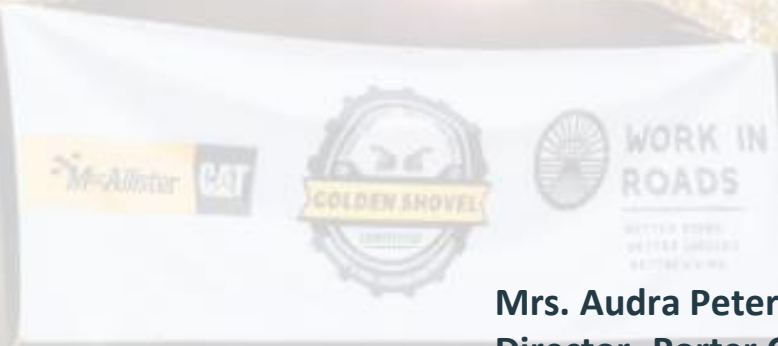


# Thank you!

Questions & Comments



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