

COLUMBUS STATE

COMMUNITY COLLEGE

**The ODOT – Columbus State
Construction Inspection Workforce
Program (CIWP)**

*Formal Education, Certification
& Internship*

AASHTO Committee on Construction
August 13, 2019

What is the Construction Inspection Workforce Program (CIWP)?

A joint effort of Columbus State, ODOT & ACEC Ohio to create a workforce of job-ready entry level consultant construction inspectors – the next generation of highway & bridge construction inspectors (career pathway)



OHIO DEPARTMENT OF
TRANSPORTATION

ACEC

AMERICAN COUNCIL OF ENGINEERING COMPANIES
of Ohio

ODOT - Columbus State CIWP

- **Education**
 - 38 Credit Hours of Civil Engineering Technology, Construction Management and Surveying Courses
- **Certification**
 - National Institute for Certification in Engineering Technologies (NICET) Levels I&II Highway Inspection & ODOT Required Certifications/Testing of ACI Level I, Ohio Asphalt, Ohio Aggregate/ACI Aggregate and ODOT Traffic Work Zone Safety
- **Internship**
 - Formal 12-month paid internship working for an ODOT qualified engineering consultant on ODOT or ODOT-related projects

Why Now? Why the CIWP?

- Shortage of Qualified & Experienced Inspectors
- Increased Complexity of Inspection
- Formal industry supported programs that include formal education, certification & internships
- Large and numerous highway & bridge projects in Ohio and surrounding states
- Partnering w/Urban Community Colleges

Goals & Deliverables

Started May 2018 – Goal of 1st CIWP “Graduates” Prequalified as Ohio DOT Consultant Construction Inspectors – Late 2020

- Curriculum Supportive of Becoming Certified w/NICET Levels I&II and passing ODOT required certifications and tests w/Education Credit Towards NICET Levels I&II Experience Requirements
- CSCC as “One Stop Shop” for Students (and Employers)
- Program Tri-Fold Brochure & Weblink, Outreach Plan to Existing CSCC Students and Career Technical High Schools
- Agreement w/ODOT and ACEC Ohio for Formal Internships
- Benchmark w/State DOT’s, Community Colleges & Industry Advisory Group
- Program Guidebook June 30, 2019

Project Inspector Intern Program

Related & Independent of the CIWP – Effective This Construction Season

- New Section of the ODOT Consultant Prequal Requirements & Procedures 2019 Edition - Section 2.50 Project Inspector Intern
- Goal to Support the Experience Component of Future Prequalified Inspectors – 3 Levels of Project Inspector Interns
- Consultants are Reimbursed an Hourly Rate for Each Level, Included in Contracts and also Voluntary
- Consultants Responsible for Support – Varied Experience, Preparation for Certification and Testing

Unplanned Opportunities & Challenges

- Opportunity for “Adult Learners” to enter the workforce or improve skills
- Potential for utilizing CSCC Curriculum statewide
- Challenges of required ODOT Prequalification Certifications
- Winter Work as a Career Challenge
- Opportunity to Benchmark w/other States through AASHTO Committee on Construction - Safety, Environment and Workforce Development Committee and NICET QA/QC Workforce Development Group

ODOT - Columbus State CIWP Career Pathway Next Steps

Certification & Licensure Paths Starting with CIWP



ODOT Prequalified Inspectors + Additional Certifications

- Project Structure Inspector
- Coatings Inspector
- Traffic Signal and Lighting Inspector
 - Soils and Aggregate Inspector
 - NICET Levels III & IV

BS in Civil Engineering (Ohio University)

+ Experience and Testing = Licensed Professional Engineer (PE)



Construction Engineer/PM – Contractor & Inspectors Work for You...

ODOT - Columbus State CIWP Career Pathway Next Steps

Educational Path Starting with CIWP



Associates of Applied Science in Civil Engineering Technology
(AAS CET)

Associate of Applied Science in Surveying
Associate in Applied Science in Construction Management



AAS CET > Bachelor of Science in Civil Engineering
(Ohio University)

Organization of the CIWP

- Ongoing Agenda for Monthly Meetings & Industry Advisory Group Meetings
 - Organizational Component
 - PM Contract/Invoicing/Reporting, Industry Advisory Group, Urban Area Updates, Guidebook, Student Commitment #'s
 - Academic Component - Course by Course Crosswalk, Course Adjustments
 - Certification Component
 - NICET, Prequals - ACI, Aggregate, Work Zone Traffic, Asphalt Concrete
 - Internship Component - ODOT Sponsored Consultants, Consultant Contract Manual
 - Program Agreements - NICET Articulation/Education Credit, NICET Training Provider
 - Communication, Marketing and Outreach
 - Students/Future Students, Conference Presentations, Websites, Brochures
 - Benchmarking/Continuous Improvement
 - AASHTO CoC, NICET, NCHRP Funded Research

Find Out More

- **Questions/Answers?**
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