Frits Rizor
Education Program Specialist

Construction Technologies
Career Pathway

Transportation Systems
Career Pathway

Manufacturing Technologies
Career Pathway

Engineering and Science Technologies
Career Pathway

frits.rizor@education.ohio.gov
<table>
<thead>
<tr>
<th>Agenda Topics</th>
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<td>CTE Office Updates</td>
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<td>Perkins Data &amp; Accountability</td>
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<td>Quality Program Review</td>
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<td>Equity Initiatives</td>
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<tr>
<td>Industry Credential Updates</td>
</tr>
<tr>
<td>Career Field Update</td>
</tr>
</tbody>
</table>
CTE Office Updates

• Due to the Covid-19 pandemic, all career technical education staff are working remotely.
• Email is the best way to communicate with CTE staff.
• Please expect a response in 48 hrs.
CTE Office Updates

• Update on CTE Staff
  – Leah Amstutz, CTE Director
  – Matt Winkle, Associate Director
  – Shell Nichols, Associate Director
  – Matt Wells, Correctional Institutions
  – Kris Vigneron, Information Technology
  – Frits Rizor, Engineering, Manufacturing
  – Patti Guseman, Industry Recognized Credentials
  – Mandy Monaco, CTE Licensure
# CTE Office Work Teams

<table>
<thead>
<tr>
<th>Work-Based Learning</th>
<th>Data &amp; Accountability</th>
<th>Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brenna Bartlett</td>
<td>Robert Kornack</td>
<td>Rebecca Crance</td>
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</table>

<table>
<thead>
<tr>
<th>Quality Program Review</th>
<th>Industry Credentials</th>
<th>CTE-26 Applications</th>
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<tbody>
<tr>
<td>Frits Rizor</td>
<td>Patti Guseman</td>
<td>Ryan Curtis</td>
</tr>
</tbody>
</table>

| Administrative Field      | Expansion of High Quality      | Teacher Preparation  |
| Services                  | CTE Programs                   |                      |
|                           |                                |                      |
| Jon Beard                 | Shell Nichols                  | Alyssa Bregel        |
Reset and Restart Education Planning Guide

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ROLE OF ASSOCIATIONS, EDUCATIONAL ORGANIZATIONS (INCLUDING EDUCATIONAL SERVICE CENTERS) AND OTHER STATE AND COMMUNITY PARTNERS ........................................ 26

Please visit our webpage for more information.
Perkins V Data & Accountability

• US Department of Labor and Education have approved Ohio's Perkins V State Plan.
• Covers program years 2020 through 2023.
• Equity focus.
• Data & Accountability Guidebook and Concentrator Reporting Matrix.
• Please visit the Data & Accountability webpage to review these resources.
Quality Program Review

• Quality Program Review will transition to align with Perkins V.

• New concentrator definition, measures and benchmarks will all affect the Quality Program Review.

• External workgroup met to redesign the five year schedule.
## Quality Program Review

<table>
<thead>
<tr>
<th>FY2021 and Beyond</th>
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</thead>
<tbody>
<tr>
<td>Technical Skill Attainment (includes participation)</td>
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<tr>
<td>Post Program Placement</td>
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<tr>
<td>Work-based Learning</td>
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</table>
# Quality Program Review

<table>
<thead>
<tr>
<th>Step/Year</th>
<th>Quality Program Standards Survey</th>
<th>Action Plan Deliverables</th>
<th>Workshop</th>
<th>Required Attendees</th>
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<td>1</td>
<td>Required</td>
<td>Create Action Plan 1</td>
<td>Recommended</td>
<td>Teacher and Administrator</td>
</tr>
<tr>
<td>2</td>
<td>Recommended</td>
<td>Review/Revise Action Plan 1</td>
<td>Required</td>
<td>Teacher and Administrator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Create Action Plan 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Recommended</td>
<td>Review/Revise Action Plan 1,2</td>
<td>Required</td>
<td>Team</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Create Action Plan 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Recommended</td>
<td>Review/Revise Action Plan 1-3</td>
<td>Required</td>
<td>Team</td>
</tr>
<tr>
<td>5</td>
<td>Required</td>
<td>Review/Revise Action Plan 1-3</td>
<td>On-site Evaluation</td>
<td>Team</td>
</tr>
</tbody>
</table>
Work Based Learning

From the CTE Data & Accountability Guidebook:
Beginning as early as grade 9, CTE students should accumulate 250 hours of work-based learning experience aligned to their program of study with evidence of positive evaluations.

(Aligned to new graduation requirements.)

Experiences may include one or more of the following:

- Job Site Placement and Internship
- Apprenticeship and Pre-Apprenticeship
- Remote or Virtual Placement
- Entrepreneurship
- School-based Enterprise
- Simulated Work Environment
Work Based Learning

Work-Based Learning Requirements:

1. Work-based learning experiences must occur at work sites.
   - Work site can also exist virtually or within the school.
   - Should not occur during instructional time OR overlap with teacher-led activities.
   - Should include regular interaction with community members/customers/clients.
Work Based Learning

Work-Based Learning Requirements:

2. Work-based learning experiences must be co-supervised by an instructor/educational representative and an employer/business mentor.

3. A Learning Agreement built on professional, academic and technical competencies aligned to the student’s program of study must be in place.

Guidance & Resources available on the Work-Based Learning Website (Updates Coming Soon!)
Equity Initiatives

Equity Ambassadors

• Each CTPD has been invited to nominate an Equity Ambassador:
  – Additional professional development (NAPE)
  – Statewide best practice sharing & development
  – CTPD Equity resource for QPR, CLNA, etc.

Contact Rebecca Crance (Rebecca.Crance@education.ohio.gov) for more information!
Student success starts with school attendance

The Get 2 School Network prioritizes attendance, connecting its users to resources aimed at tackling chronic absenteeism.

Learn More...
Industry Credential Updates

How Do I...?

- Find a career technical school?
- Find Career-Tech online resources?
- Review career-tech's new content standards?
- Earn college credit in high school?
- Link my interests to a future career?
- Access Ohio Means Jobs K-12
- Start a Career-Tech program?

Topics
Career-Technical Programs
- Agricultural and Environmental Systems
- Arts and Communication
- Business and Administrative Services
- Career-Based Intervention
- Construction Technologies
- Education and Training
- Engineering and Science Technologies

Program Enhancements
- Ohio's Career-Technical Content Standards Revision Overview
- Industry-Recognized Credentials
- Integrated Coursework and Awarding Simultaneous Credit
- Apprenticeships and Internships
- Career Connections and OhioMeansJobs K-12
- College Tech Prep
Industry Credential Updates

Industry-Recognized Credentials

COVID-19 Industry-Recognized Credential Guide

On March 9, 2020, Governor Mike DeWine issued an executive order declaring a state of emergency in Ohio due to the coronavirus health crisis. On April 20, 2020, he ordered the extension of Ohio's school-building closure through the end of the academic year. The ordered school-building closure and other measures taken in response to the coronavirus health crisis affect students' ability to complete industry-recognized credentials.

Due to the ordered school-building closure, secondary schools' industry-recognized credential programs have implemented remote learning. However, many industry-recognized credential preparation programs require hands-on lab instruction that cannot be duplicated through remote learning in a manner that mirrors in-person instruction. Additionally, in some cases job placement, lab or experiential learning hours are a requirement for earning an industry-recognized credential.

The Industry Credential Vendor Flexibility information guide was created to provide support to the education community and ensure the availability of current information from credentialing bodies, state licensing agencies and credential vendors for students seeking credentials during these unprecedented times. This resource includes information on flexibility of deadlines, timelines, proctoring of exams and other requirements for each industry-recognized credential on the Department's approved list. Teachers can use this information to instruct and guide students who were in the process of earning industry-recognized credentials at the time of the ordered school-building closure.

Schools are invited to share information and updates from credential vendors, provide feedback, ask questions, and express concerns by contacting the Ohio Department of Education at IndustryCredentials@education.ohio.gov. A new version will be posted as updates are provided and will be highlighted within the document.

Industry Credential Vendor Flexibility Information and Guidance Posted July 24, 2020
Industry Recognized Credentials

Quick Links

- Industry-Recognized Credentials by Career Field
- Workforce Readiness Score
- Industry-Recognized Credentials FAQs
- Senior Only Credential Program for Students
- Schools Districts that offer a Credential Program
- Integrating Industry-Recognized Credentials and WorkKeys in High School Curriculum
- Start a career-tech program leading to an industry-recognized credential
- Process for Adding new Industry-Recognized Credentials

Industry-Recognized Credentials

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## Industry Credential Updates

### Explore Career Fields

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<thead>
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<th>Agriculture/Environmental Systems</th>
<th>Arts and Communications</th>
<th>Business, Marketing, and Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Education and Training</td>
<td>Engineering</td>
</tr>
<tr>
<td>Health</td>
<td>Hospitality and Tourism</td>
<td>Human Services</td>
</tr>
<tr>
<td>Information Technology</td>
<td>Law and Public Safety</td>
<td>Manufacturing</td>
</tr>
<tr>
<td>Transportation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Where Can I Find a Full List of the Industry-Recognized Credentials?

For a full list of the credentials with Education Management Information System (EMIS) Assessment Area Codes, career fields, and point values, click [here](#).

### How Can a Student Earn a High School Diploma Under the “Credential” Option?

In order to qualify for a diploma under the credential option, a student needs to do two things:

- Please refer to Ohio’s Graduation Requirements and the appropriate graduating class.
Industry-Recognized Credentials

COVID-19 Industry-Recognized Credential Guide

On March 9, 2020, Governor Mike DeWine issued an executive order declaring a state of emergency in Ohio due to the coronavirus health crisis. On April 20, 2020, he ordered the extension of Ohio’s school-building closure through the end of the academic year. The ordered school-building closure and other measures taken in response to the coronavirus health crisis affect students’ ability to complete industry-recognized credentials.

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Industry Credential Updates

NEW Application
The Ohio Department of Education, in collaboration with the Governor's Office of Workforce Transformation, has developed a new application and review process timeline.

Community stakeholders, including schools, parents, students and businesses may submit credentials to the Ohio Department of Education for consideration by completing an application. The application will now be in the form of a survey.

» Click here to view the application prior to submitting. It will allow for easy planning prior to beginning the live application.
» Click here to begin the live application. You will not be able to save and come back to the application survey prior to submitting.

APPLICATION PROCESS TIMELINE
The application process will cycle four times yearly, but the application will always remain open. The four open application windows will be:
» June 1, 2020 – August 30, 2020 (credentials available for 2021-2022 school year)
» September 1, 2020 – November 30, 2020 (credentials available for 2022-2023 school year)
» December 1, 2020 – February 30, 2021 (credentials available for 2022-2023 school year)
» March 1, 2021 – May 30, 2021 (credentials available for 2022-2023 school year)

Helpful Links
» JobsOhio
» OhioMeansJobs.com
» Ohio's Top Jobs
» Ohio Department of Job and Family Services
Industry Credential Updates

- **New** Process for Adding Industry-Recognized Credentials.
  - Research and Burning Glass data
  - Alignment to Career Field Technical Content Standards
  - Survey review by industry professionals
  - Final approval and points by committee
Course Revisions

Deleted Courses
• DE 178015  Telecommunications Low Voltage Systems
• DF 178025  Custodial Services

Revised Courses
• DD 178004  Structural Coverings and Finishes
• DF 178019  Plan Reading and Estimating
• DF 178022  Construction Management
• DF 178024  Facility and Building Maintenance
• DF 178027  Construction Site Surveying and Logistics
• DF 178028  Interior Design
# Middle School Course Offerings

## Middle School Construction Technologies Courses

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Course Title</th>
<th>Curriculum Code/Hours</th>
<th>VT</th>
<th>VS</th>
<th>VM</th>
</tr>
</thead>
<tbody>
<tr>
<td>178000</td>
<td>Construction Technology – Core and Sustainable Construction</td>
<td>120-280</td>
<td>60</td>
<td></td>
<td>30-90</td>
</tr>
<tr>
<td>178001</td>
<td>Carpentry and Masonry Technical Skills</td>
<td>120-280</td>
<td>60</td>
<td></td>
<td>30-90</td>
</tr>
<tr>
<td>178002</td>
<td>Mechanical, Electrical and Plumbing Systems</td>
<td>120-280</td>
<td>60</td>
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<td>30-90</td>
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<tr>
<td>178019</td>
<td>Plan Reading and Estimating</td>
<td>120-280</td>
<td>60</td>
<td></td>
<td>30-90</td>
</tr>
<tr>
<td>178030</td>
<td>Principles of Wood Construction</td>
<td>60-280</td>
<td>60</td>
<td></td>
<td>30-90</td>
</tr>
<tr>
<td>178040</td>
<td>Fundamentals of Architecture and Construction</td>
<td>60-280</td>
<td>60</td>
<td></td>
<td>30-90</td>
</tr>
<tr>
<td>990364</td>
<td>Career Connections</td>
<td></td>
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<td>30-90</td>
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### Mechanical, Electric and Plumbing Pathway (DE)

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Course Title</th>
<th>Curriculum Code/Hours</th>
<th>VT</th>
<th>VS</th>
<th>VM</th>
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<tbody>
<tr>
<td>178000</td>
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### Construction Design and Management Pathway (DF)

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<th>VS</th>
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<tbody>
<tr>
<td>178000</td>
<td>Construction Technology – Core and Sustainable Construction</td>
<td>120-280</td>
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<td>30-90</td>
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<tr>
<td>178001</td>
<td>Carpentry and Masonry Technical Skills</td>
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## Curriculum Code

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<th>Assessment</th>
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<td>Yes</td>
<td>Required</td>
<td>Yes</td>
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<tr>
<td>VS</td>
<td>7-12</td>
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<td>VM</td>
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<td>Yes</td>
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## Industry Recognized Credentials

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<th>Career Field</th>
<th>Credential</th>
<th>Point Value</th>
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<tr>
<td>Construction</td>
<td>Bleeding Control Basic 1.0 Course</td>
<td>1</td>
</tr>
<tr>
<td>Construction</td>
<td>Lean Six Sigma Black Belt</td>
<td>12</td>
</tr>
<tr>
<td>Construction</td>
<td>NCCER Level 2</td>
<td>12</td>
</tr>
<tr>
<td>Construction</td>
<td>North American Technician Excellence HVAC Support Technician</td>
<td>12</td>
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</tbody>
</table>

[Explore Career Fields](https://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Industry-Recognized-Credentials/Industry-Recognized-Credentials-by-Career-Field)
CETE Resources

Assessment

About The Tests

Curriculum & Training

Ohio’s Professional Development Institute

Center in Education and Training for Employment
WebXam

All Construction Technologies (DD, DE, DF) courses will be in field testing

- 90 question tests
- No pre-test
- Testing window will close earlier

https://news.webxam.org/calendar/
Test Item Writing/Validation Panel

SME is a **Subject Matter Expert** who possess the knowledge and expertise needed to develop the test content, review the test content, and provide judgments about the quality of the test.

**Item Writing Areas:**

- Construction, Frits Rizor
- Health, Matt Wells

CETE Recruiting
# Item Writing

Courses that still need item writing and validation due to COVID-19

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
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<tbody>
<tr>
<td>178010</td>
<td>Pipefitting and Plumbing Systems</td>
</tr>
<tr>
<td>178011</td>
<td>Residential and Commercial Plumbing Systems</td>
</tr>
<tr>
<td>178016</td>
<td>Alternative Power Generation Systems</td>
</tr>
<tr>
<td>178017</td>
<td>Powerline/Hi-Voltage Power Transmission</td>
</tr>
<tr>
<td>178020</td>
<td>Facility and Building Maintenance</td>
</tr>
<tr>
<td>178021</td>
<td>Architecture Design - Structural and Mechanical/Electrical/Plumbing</td>
</tr>
<tr>
<td>178024</td>
<td>Architecture Design - Site and Foundation Plans</td>
</tr>
<tr>
<td>178028</td>
<td>Facility and Building Maintenance</td>
</tr>
</tbody>
</table>

[https://news.webxam.org/item-writing/](https://news.webxam.org/item-writing/)
WebXam Calendar & Newsletter

https://news.webxam.org/calendar/

August 17 – Pre-testing Opens**
September 18 – Pre-Testing Closes**
October 9 – WebXam Users Workshop

Be sure to sign up for the WebXam Newsletter at https://news.webxam.org/

** No Construction Pre-Testing
Resources

Construction Blueprints are NOT accurate for the 2020-21 school year
Resources

Trade and Industrial Educator Newsletter

Construction Technologies Revised Standards and Courses

The revised standards and courses have been removed from draft status and are posted on the Construction Technologies web page. Technical content standards are available in PDF or Excel and course outlines are available in Word. These standards and courses should be used for the upcoming 2020-2021 academic year.

Please note that WebXam end-of-course assessments for the upcoming year will be in field test status, so they will contain ninety questions per exam and there will be no pre-test.

Courses

Middle School

- Middle School Construction Course Titles and Descriptions

High School

- Construction Technologies Career Field Course Titles and Descriptions
- Construction Technologies Career Field Course Outlines
- Construction Technologies Career Field Course Titles and Descriptions FY2021
- Construction Technologies Career Field Course Outlines FY2021

Standards

- 2013 Construction Technologies Career Field Technical Content Standards
- 2019 Construction Technologies Career Field Technical Content Standards

Sign up to stay in touch!

Sign up to get interesting news and updates delivered to your inbox.

* Email Address

* First Name

* Last Name

* School Name

Email Lists

- Administrators
- Business, Industry and Postsecondary
- Educators

By submitting this form, you are consenting to receive marketing emails from Ohio Trade & Industrial Education, Ohio Department of Education, 26 South Front St., MS 600, Columbus, OH 43215 United States. http://www.ohiobrei.org You can revoke your consent to receive emails at any time by using the SafeUnsubscribe® link found at the bottom of every email. Emails are serviced by Constant Contact.

https://visitor.r20.constantcontact.com/manage/optin?v=001pMXN0jbHQ12JID93epGCiFv4ByEX6N3m19cFHkWfBVWkiCDSjOU3o0nXL45foA8CWyv-Dq_cnCQZvo-ak6iWjn5NYyiC8e1gnG JiF8Q9FgNL3zNPOluYf03gAbm_XBG MORGlanJiMbtOn3I K76_51YLQvxvyKO
Resources

NCCERconnect Overview
https://cloud.contentraven.com/pearson/content-viewer/154498/1/12/0

NCCERconnect Getting Started

NCCER Instructor Resource Center
https://www.youtube.com/watch?v=B-r5dLX61fM&feature=youtu.be
Questions?
Frits Rizor
Education Program Specialist

Construction Technologies Career Pathway

Transportation Systems Career Pathway

Manufacturing Technologies Career Pathway

Engineering and Science Technologies Career Pathway

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