WebXam: Tips & Tricks

Ohio Career Technical Administrators
Fall Meeting (2018)
Current Events for CTE in OHIO (Columbus Dispatch, 10-07-18)

**Business Section:** Bot-farmers accentuate shifts in farming
1) FROM Typical (outdoors, dirt, humans)
2) TO Modern (built structures, growing media, bots / humans)

**Metro Section:** Delaware Area CC new building
1) Parable of the levy (civics)
2) Engineering Instructor Nick Steffen (milling machines, robotics, 3D)
3) Jobs, jobs, jobs
Agenda

Where is WebXam, Waldo?

WebXam Walkthrough
WebXam Reports
Test Preparation/Security
Blueprints / Psychometrics / Forensics
Item-Writing: 2018-19 Updates

*Questions answered, if time permits
Email to austin.38@osu.edu
WebXam Quick Start Guide

Login at https://webxam.org
https://webxam.org

As needed, a password reset link … *(email accuracy important)*
WebXam Experiences Landmark Fall Pretesting Window

Every August, WebXam, the online testing portal maintained by the CETE Assessment Services Team, launches a one-month fall pretesting window. This window also occurs in January although the fall window is by far more popular. During this window, CTE educators have the option to administer course pretests to their students as part of the Ohio [...] Read More

WebXam Releases September 2018 Newsletter

Learn about the 2018-19 WebXam calendar, changes to WebXam, Bulk Data uploads, Pretesting Window, IT Pretesting, Teacher Review Price Increase, and Share Your Expertise in Cybersecurity – Be a SMEI. Read More
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Support

Resources
Calendar
About the Tests
Quick Start
Users Guide
Contact Us
(614) 292-4988
webxam@osu.edu
Ticket
Submit a Ticket
The Sidebar

- Home
- User Search
- Order Test
- Administrator
- Teacher
- Assessor
- Adult Student
- Secondary Student
- Activate Test
- Reports
- Legacy Reports
WebXam User's Guide
### Filters

**Teacher**
- Select a teacher to filter by

**Grade**
- Select a grade level to filter by

**Location**
- Select a location to filter by

---

#### Bulk Action
- Add Test
- Archive
- Unarchive
- Change Grade
- Add Teacher
- Remove Teacher
- Download CSV

**Enable/Disable**

<table>
<thead>
<tr>
<th>Name</th>
<th>First Name</th>
<th>Username</th>
<th>Grade</th>
<th>Location</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>Abby</td>
<td>demo.3794</td>
<td>Junior</td>
<td>Demo 74 School</td>
<td>Enabled</td>
</tr>
<tr>
<td>MS</td>
<td>Alana</td>
<td>demo.84218</td>
<td>Junior</td>
<td>Demo 74 School</td>
<td>Enabled</td>
</tr>
<tr>
<td>MS</td>
<td>Amari</td>
<td>demo.50016</td>
<td>Junior</td>
<td>Demo 74 School</td>
<td>Enabled</td>
</tr>
<tr>
<td>MS</td>
<td>Amira</td>
<td>demo.60848</td>
<td>Sophomore</td>
<td>Demo 1 School</td>
<td>Enabled</td>
</tr>
<tr>
<td>MS</td>
<td>Asher</td>
<td>demo.71664</td>
<td>Sophomore</td>
<td>Demo 85 School</td>
<td>Enabled</td>
</tr>
<tr>
<td>MS</td>
<td>Augustus</td>
<td>demo.94071</td>
<td>Other</td>
<td>Demo 74 School</td>
<td>Enabled</td>
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<tr>
<td>MS</td>
<td>Averie</td>
<td>demo.68141</td>
<td>Freshman</td>
<td>Demo 1 School</td>
<td>Enabled</td>
</tr>
<tr>
<td>MS</td>
<td>Brendan</td>
<td>demo.23617</td>
<td>Senior</td>
<td>Demo 99 School</td>
<td>Enabled</td>
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<tr>
<td>MS</td>
<td>Cash</td>
<td>demo.86102</td>
<td>Senior</td>
<td>Demo 74 School</td>
<td>Enabled</td>
</tr>
<tr>
<td>MS</td>
<td>Christian</td>
<td>demo.18755</td>
<td>Sophomore</td>
<td>Demo 99 School</td>
<td>Enabled</td>
</tr>
</tbody>
</table>
What’s NEW: Reports?

• NEW Reports: Testing and Pathway
• NEW Outcome Report Export for ADMINISTRATORS (YOU)

• Changes to End of Year Reporting!!
• Improved Report in Student Rosters
What Reports are available?

- Summary
- Testing
- Pathway
- Teacher Effectiveness
- End Of Year Export (Sunset Soon)
- Outcome
- Legacy Reports
Teacher Effectiveness
NEW Teacher Effectiveness levels for 2018-2019

<table>
<thead>
<tr>
<th>Effectiveness Level</th>
<th>New Raw Score Gain (basis:40)</th>
<th>Previous Values (2014-18)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Most Effective</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>Above Average</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Average</td>
<td>3</td>
<td>4-5</td>
</tr>
<tr>
<td>Approaching Average</td>
<td>2</td>
<td>2-3</td>
</tr>
<tr>
<td>Least Effective</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Note:** student gain is one component of overall teacher effectiveness and % depends on LEA policies (% caps at 42.5 / 50)
<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Posttest Before Deadline</th>
<th>Posttest After Deadline</th>
<th>Compliance %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>13932</td>
<td>10130</td>
<td>3802</td>
<td>72.71%</td>
</tr>
<tr>
<td>2016</td>
<td>104525</td>
<td>75654</td>
<td>28871</td>
<td>72.38%</td>
</tr>
<tr>
<td>2017</td>
<td>288543</td>
<td>239568</td>
<td>48975</td>
<td>83.03%</td>
</tr>
<tr>
<td>2018</td>
<td>391447</td>
<td>337165</td>
<td>54282</td>
<td>86.13%</td>
</tr>
</tbody>
</table>
Popular Reports 2017-2018
### Testing Report

- **Replaces** “Individual Report”
- **Allows Selecting of** “All Years”
- **Allows Selecting of** “All Posttests” or “All Pretests”

<table>
<thead>
<tr>
<th>Name</th>
<th>Course Information</th>
<th>Standards</th>
<th>Test Date</th>
<th>Correct</th>
<th>Questions</th>
<th>% Correct</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brastyn</td>
<td>010115 - Business Management for Agricultural and Environmental Systems</td>
<td>03%</td>
<td>5/1/2018</td>
<td>29</td>
<td>40</td>
<td>73%</td>
<td>Proficient</td>
</tr>
<tr>
<td>Gledren</td>
<td>010115 - Business Management for Agricultural and Environmental Systems</td>
<td>03%</td>
<td>4/23/2018</td>
<td>37</td>
<td>40</td>
<td>83%</td>
<td>Advanced</td>
</tr>
<tr>
<td>Arienx</td>
<td>010115 - Business Management for Agricultural and Environmental Systems</td>
<td>03%</td>
<td>5/10/2018</td>
<td>18</td>
<td>40</td>
<td>45%</td>
<td>Not Proficient</td>
</tr>
</tbody>
</table>

#### Aggregate Report

<table>
<thead>
<tr>
<th>Test Takers</th>
<th>Average % Score</th>
<th># Proficient</th>
<th># Advanced</th>
<th># Proficient+Advanced</th>
<th>Performance Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>This Report</td>
<td>72.03</td>
<td>6</td>
<td>13</td>
<td>83</td>
<td>79</td>
</tr>
<tr>
<td>Statewide (2018)</td>
<td>69.29</td>
<td>15</td>
<td>31</td>
<td>63</td>
<td>79</td>
</tr>
</tbody>
</table>
Pathway Report

- Filters: all reported pathways
- See WebXam Pathway score and the tests that make up that score
# Outcome Report

<table>
<thead>
<tr>
<th>Outcome Code</th>
<th>Outcome</th>
<th>Your Students</th>
<th>Statewide</th>
</tr>
</thead>
<tbody>
<tr>
<td>01.01</td>
<td>Employability Skills</td>
<td>47.45%</td>
<td>62.27%</td>
</tr>
<tr>
<td>01.02</td>
<td>Leadership and Communications</td>
<td>45.3%</td>
<td>70.04%</td>
</tr>
<tr>
<td>01.03</td>
<td>Business Ethics and Law</td>
<td>51.28%</td>
<td>56.71%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Name</th>
<th>Last Name</th>
<th>% Correct</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kian</td>
<td>ASHTABULA</td>
<td>0%</td>
</tr>
<tr>
<td>Davey</td>
<td>SELMONT</td>
<td>50%</td>
</tr>
<tr>
<td>Zion</td>
<td>BUTLER</td>
<td>100%</td>
</tr>
<tr>
<td>Miah</td>
<td>CARROLL</td>
<td>50%</td>
</tr>
<tr>
<td>Miahyah</td>
<td>CLINTON</td>
<td>100%</td>
</tr>
</tbody>
</table>
EMIS Reporting: Report Cards

- WebXam ONLY reports Test Scores by COURSE
- EMIS calculates Pathway Scores using enrollment data (important to know)
- Students must test in ALL courses they take
  - Participation (% testing)
  - Performance (% Passing)
- “End Of Year Export” report sunsets soon
- Testing Report includes options report on all testing in your domain
Test Security in the Classroom

- Students should not leave the classroom during testing
- Talking should be kept to a minimum
- Use bright colored paper for any notes, calculations, or scratch paper. Collect at the end of the test
- In the event of a fire drill, evacuation, or illness, close the browser to save the test – **DO NOT SUBMIT**
- For more information, visit:  
  [https://www.webxam.org/Public/TestSecurityRulebook](https://www.webxam.org/Public/TestSecurityRulebook)
What is a Bank Blueprint?

- Where should items focus?

- Blueprint allocates items to content domain, more items generated for more important content

- Since 2015-16, drafted from ODE course outlines, approved after subject matter expert review, discussion, & input, then POSTED (see below) – PRE 2015-16, “look back” blueprints give bank structure

- Depends crucially on CFTCS & Course Outlines (prepared by ODE-CTE using a process that involves business, industry, & labor input and multiple layers of review)

- CETE “hears” from field about other frameworks, must refer to ODE-CTE (EX: Project Lead the Way)
Bank Blueprint

• From total # competencies within strands and outcomes, draft suggests % items for each strand / outcome

• SME panels (HS, PS instructors) select competencies

• What is your guess: MAX # Competencies in any course? (meta-data on the curriculum)
  • 75
  • 100
  • 150
  • 200
Finding Blueprints

Navigate to WebXam.org home page and click on About the Tests (2 routes)
Finding Blueprints

Click on “Blueprints” button for the relevant pathway
Interpreting Blueprints

### Agriculture and Industrial Power

ODE Subject Code: 010210

<table>
<thead>
<tr>
<th>Outcome #</th>
<th>Outcome Name</th>
<th>% Items Approved by SMEs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Employability Skills</td>
<td>2.1%</td>
</tr>
<tr>
<td>1.2</td>
<td>Leadership and Communications</td>
<td>8.3</td>
</tr>
<tr>
<td>1.3</td>
<td>Business Ethics and Law</td>
<td>3.1</td>
</tr>
<tr>
<td>1.4</td>
<td>Knowledge Management and Information Technology</td>
<td>1.0</td>
</tr>
<tr>
<td>1.6</td>
<td>Business Literacy</td>
<td>2.1</td>
</tr>
<tr>
<td>1.8</td>
<td>Operations Management</td>
<td>2.1</td>
</tr>
<tr>
<td>1.10</td>
<td>Sales and Marketing</td>
<td>2.1</td>
</tr>
<tr>
<td>1.12</td>
<td>Site and Personal Safety Procedures</td>
<td>5.2</td>
</tr>
<tr>
<td>Strand 2. Power Systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.1</td>
<td>Tool, Stationary and Mobile Equipment Maintenance</td>
<td>9.4</td>
</tr>
<tr>
<td>4.2</td>
<td>Equipment Operations</td>
<td>3.1</td>
</tr>
<tr>
<td>4.3</td>
<td>Engines</td>
<td>9.4</td>
</tr>
<tr>
<td>4.4</td>
<td>Lubrication and Cooling Systems</td>
<td>5.2</td>
</tr>
<tr>
<td>4.5</td>
<td>Fuel, Air Induction and Exhaust System</td>
<td>5.2</td>
</tr>
</tbody>
</table>
What are “Good” Items & Forms?

- Good Items are
  - A function of Item judgments & item statistics:
  - NOT too easy (100% correct), NOT too hard (0% get correct)
  - Correlated with total score on test (differentiation)
  - Essentiality / quality ratings (1-4 scale) > 3.0

- Good Forms (40 items) feature
  - Good items (naturally)
  - Content coverage of blueprint & CTAG learning outcomes
Demystifying Performance Standards

- Performance standards complement content standards, and address the question -- What score demonstrates mastery of the content at ordered levels from
  - NON-proficient (not demonstrated “now”)
  - Proficient (passing)
  - Advanced (passing)
- Validation & standard-setting accomplished at drop-by workshops (after banks completed-edited)
  - 2 ratings each item: Essentiality & Quality
  - 2 Judgments about borderline students
    - Proficient (Y-N)
    - Advanced (Y-N)
- POSTED at “About the tests”
2018-19 Item-writing

Cybersecurity (Now)

Engineering

&

Manufacturing (late Nov)

Interested in participating?

cete-recruiting@osu.edu
Cybersecurity

- **2 workshops completed:** 9/10/18 - 9/11/18
- **Final item-writing:** 10/17/18
- **Field Testing:** 12/01/18 - 04/26/19 (catch-up)
- **Validation:** Spring 2019 (April)
- **NEW EoC Tests:** scored spring 2019, available with pretests for fall pretesting 2019 (mid-August)

<table>
<thead>
<tr>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cybersecurity Principles</td>
</tr>
<tr>
<td>Cybersecurity Testing &amp; Response</td>
</tr>
<tr>
<td>Cybersecurity Defense &amp; Reinforcement</td>
</tr>
</tbody>
</table>
Alignment: 10/9/18-10/10/18 (Link existing items to preserve)

New Item Writing: Late November into Spring

Validation & Performance Standards: Spring 2019 (May-June)
| **Basic Courses** | Engineering Principles  
Engineering Design  
Engineering Logic  
Principles of Manufacturing  
Manufacturing Operations |
|---|---|
| **Electronics** | D/C Electronics  
Analog Based Electronics Devices  
Digital Electronics |
| **Robotics** | Robotics  
Computer Integrated Manufacturing |
| **Machining** | Machine Tools  
Mechanisms and Drives  
Machining with Industrial Lathes  
Machining with Industrial Milling Machines  
Computer Numerical Control Technology w/ Industrial Mills & Lathes |
| **Welding** | Welding Technologies  
Gas Metal Arc Welding  
Shielded Metal Arc Welding  
Flux Cored Arc Welding  
Gas Tungsten Arc Welding |
| **NEW Courses** | Industrial Maintenance  
A/C Electronics  
Industrial Robotics  
Fabrication |
Pretesting Reminder!

Courses revised this year will **NOT** have pretests available during field testing

2019-20: Engineering & Manufacturing **NOT** available

Samsung “Solve For Tomorrow”
Global competition for STEM in which teams led by teachers craft solutions for problems in their communities

visit [www.samsung.com/solve](http://www.samsung.com/solve). Butler Tech team placed in top 10 (USA) recently…….