



WebXam

USER'S WORKSHOP

OCTOBER 12TH 2016

WebXam Overview

- Introduction
- Testing Cycle
- Types of WebXam Assessments
- What's new in WebXam

Introduction

- CETE is a research center at The Ohio State University.
- Contracted by ODE to develop and deliver Ohio CTE tests since 1993; online tests at WebXam.org since 2001.
- In 2015-2016, approximately 100,000 students took Ohio CTE Pathway Tests, Family and Consumer Science tests, or Teaching Professions (portfolio scoring-reporting system). This is a 25% increase year over year.

Testing Cycle – Item Writing

- Subject matter experts (SMEs) are recruited from teachers and industry professionals across the state.
 - SMEs create items for content areas using ODE's course outlines.
 - SMEs review and validate items accuracy and content.
 - SMEs provide judgments on individual items, which are then used to determine the course cutoffs.
 - <http://news.webxam.org/item-writing/> to sign up

Testing Cycle – Field Testing

- All written items are released, which are typically 80 to 100 items.
- Field testing can encompass the first one or two years of a test's lifetime.
- During field testing, passing status is not available on test completion.
- In May of the first or second year of field testing, pre- and posttest (40 items each) are chosen based on instructor judgments and student testing results.
- Students' field tests are retroactively graded based on the 40 items chosen for the posttest.
- Ramifications: Even if a student has taken all required EOC Tests, the student may not have a true overall Pathway Test score until June.

Testing Cycle – Operational Test (Pre/Post)

- This is the standard type of test normally given in WebXam.
- Scores included in end-of-year score report to EMIS.
- Passing status available immediately on test completion.
- For EOC pathway test, scores are calculated based on the following formula, where s_1 through s_n are the student's EOC Test scores and n is the number of different EOC Tests taken in the student's pathway.

$$\text{Pathway Test score} = \frac{s_1 + s_2 + s_3 + \dots + s_n}{n}$$

Testing Cycle – Operational Test (Pre/Post)

- For EOC pathway tests, cutoff scores are calculated based on the following formula, where c_1 through c_n are the cutoffs for the student's EOC Tests and n is the number of different EOC Tests taken in the student's pathway.

$$\text{Pathway Test cutoff} = \frac{c_1 + c_2 + c_3 + \dots + c_n}{n}$$

Types of WebXam Assessments

○ Modular

- Test broken up into modules. Students must take all modules.
 - All Students: Education
 - Seniors only: Hospitality & Tourism

○ End of Course (EOC)

- Students are not expected to take all EOC tests for their pathway.
- Students take an EOC test for each CTE course that they enroll in.
 - All Students: Agriculture, Construction, Arts and Communications, Business, Finance, Engineering, Health, Human Services, IT, Law and Public Safety, Manufacturing, Marketing and Transportation
 - Juniors only: Hospitality & Tourism

Types of WebXam Assessments

- Teaching Professions Portfolio
 - Rubric Scored
 - Students complete a portfolio with scores entered into WebXam by two assessors
- FCS
 - New tests are available for the 2016-17 school year, however the old ones will remain through this school year.
- Employability
 - Not required by the Ohio Department of Education
 - Two forms available (100 item pretest, 80 item posttest)
 - \$10 charge per student per test

WebXam Administration

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- Roles and Responsibilities of a WebXam Administrator
- Test Retake Policy
- Adding/Editing Students
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- Administering an Exam
- WebXam News
- Support

About the Assessments

<https://webxam.org/Admin/AboutTheAssessments>

Agriculture and Environmental Systems

03MC Agribusiness and Production Systems (2012) [Rules for this test: \[1\]](#) | [Standards](#)

ID	Name	# of Items	Performance Standard	Advanced Performance Standard	Field Test?	Pretest?
010105	Agriculture, Food and Natural Resources	40	59	91	✗	✓
010115	Business Management for Agricultural and Environmental Systems	89	N/A	N/A	✓	✗
010120	Mechanical Principles	40	67	86	✗	✓
010125	Animal and Plant Science	40	62	93	✗	✓
010130	Global Economics and Food Markets	40	76	93	✗	✓

About the Assessments

○ Retired Tests:

- 01MC Accounting
- 02MC Administrative Office Technology
- 04MC Financial Services
- 11MC Medical Management and Support
- 13MC Business Management
- 17MC Legal Management and Support
- 18MC Performing Arts
- 19MC Media Arts
- 35MC Supply Chain Management
- 36MC Marketing Management
- 37MC Marketing Communications
- 38MC Visual Design and Imaging

About the Assessments

- New Tests:
 - 34MD Culinary and Food Service Operations
 - 40MD Lodging and Travel Services
 - 091025 Child Development
 - 091052 Personal Finance Management
 - 091053 Consumer Economics
 - 091201 Introduction to Family and Consumer Sciences
 - 091205 Principles of Food
 - 091210 Global Foods
 - 091215 Food Sciences
 - 091220 Culinary Fundamentals
 - 091225 Principles of Nutrition and Wellness
 - 091402 Career and College Readiness
 - 091403 Leadership and Community Engagement
 - 091410 Transitions and Careers
 - 091500 Textile and Interior Design
 - 091501 Interior Design, Furnishings and Management
 - 091505 Textile Design, Construction and Maintenance
 - 093005 Personal Wellness and Development
 - 093010 Personal Wellness
 - 093015 Human Growth and Development

Assessment Matrix

<http://education.ohio.gov/Topics/Career-Tech/CTE-Assessments-and-Industry-Credentials>

CTE Pathway Program Name		Subject Code	Test Name - EMIS Code Assessment Vendor
Agricultural and Environmental Systems (01)			Required Tests
A0	Agribusiness and Production Systems	NA	Agribusiness and Production Systems - 03MC ODE/Ohio State University-CETE
A1	Industrial Power Technology	NA	Agricultural and Industrial Power 05MC ODE/Ohio State University-CETE
A2	Animal Science and Management	NA	Animal Science and Management - 08MC ODE/Ohio State University-CETE
A3	Agriculture, Food and Natural Resources Bioscience	NA	AFNR Bioscience - 46MD ODE/Ohio State University-CETE
A5	Horticulture	NA	Horticulture - 53MC ODE/Ohio State University-CETE
A6	Natural Resource Management	NA	Natural Resources and Management- 39MC ODE/Ohio State University-CETE.
Arts and Communication (02)			Required Tests
B0	Media Arts	NA	Media Arts – 19MD ODE/Ohio State University-CETE
B1	Performing Arts	NA	Performing Arts – 38MD ODE/Ohio State University-CETE
B2	Visual Design and Imaging	NA	Visual Design and Imaging 18MD ODE/Ohio State University-CETE

Roles and Responsibilities of a WebXam Administrator

- WebXam administrators are responsible for managing their user hierarchy, including creating other WebXam administrator and teacher accounts.
 - They may also enter in students, either via an upload or manually.
 - We recommend teachers do not enter their students manually unless instructed to do so by their WebXam administrators, in order to curb the number of students with duplicate accounts.
- **A common problem: Students have more than one account.**
 - Teachers create a new account for a student because they do not have access to see the student's existing account.
 - New for the 2016-17 school year, SSIDs for students are now required. Going forward, this will allow us to accurately identify a student to prevent them from having duplicate accounts.

Test Retake Policy

○ End-of-Course (EOC)

- Each EOC test can be taken once per school year.
- If an EOC test is retaken the following school year, the most favorable score is kept (i.e., the best score compared to the performance standard for that school year).
- Students should take the EOC Test for each course taken. Any Pathway Test with fewer than three EOC Tests will be reported as incomplete.

○ Modular sequence

- Each test can be taken once per school year.
- If a test is retaken the following school year, the most favorable score is kept (i.e., the best score compared to the performance standard for that school year).
- Any module not taken will be counted as a zero score.

Add Secondary Student to:

School Building

--All--

Student's Teacher:

Select the teachers...

- Remember to associate the student to a teacher by selecting the teacher in the above list.

Secondary Student's Personal Information:

--For students taking only Family and Consumer Sciences (FCS) tests, leave the **Pathway Test** field blank.

* indicates required field

*First Name

*Last Name

Email Address

*EMIS ID

*Reported Pathway Test

Choose a program...

End of Course Tests

Select the End of Course Tests...

Additional Tests

Select any Additional tests...

Accommodations Needed

None

Reason for Accommodation

*Gender

*Race/Ethnic Group

*Grade Level

Adding/Editing Students

Add Secondary Student to:

School Building

Student's Teacher:

- Remember to associate the student to a teacher by selecting the teacher in the above list.

Secondary Student's Personal Information:

--For students taking only Family and Consumer Sciences (FCS) tests, leave the **Pathway Test** field blank.

* indicates required field

*First Name

*Last Name

Adding/Editing Students

Email Address	<input type="text"/>
*EMIS ID	<input type="text"/>
*Reported Pathway Test	<input type="text" value="Choose a program..."/>
End of Course Tests	<input type="text" value="Select the End of Course Tests..."/>
Additional Tests	<input type="text" value="Select any Additional tests..."/>
Accommodations Needed	<input type="text" value="None"/>
Reason for Accommodation	<input type="text"/>
*Gender	<input type="text"/>
*Race/Ethnic Group	<input type="text"/>
*Grade Level	<input type="text"/>

Common Test Activation Problems

- Check for the following:
 - Student already has a WebXam account.
 - Student account is enabled.
 - Student account has the correct test assigned to account.
 - Student account is under teacher or administrator doing activation.
 - Student has not already taken the test this year.

WebXam Reports

- Individual Reports – See how a student performed on either a pathway test or an individual course.
 - Expanded Reports – Displays a student's pathway test as well as their performance on individual courses.
- Aggregate Reports – See how a group of students performed collectively on a pathway or an individual test.

STUDENT:	Proficient Cutoff	Advanced Cutoff	End-of-Course Tests Taken	Passed?
John Doe	61	83	4	144 out of 160 = 90% Passed (adv.)

Section:	Cutoff Score:	Advanced Cutoff:	Percent Correct:	Number of Questions:	Number Correct:	Passing:	Passing (Advanced):	Date Taken:	Score Used:
25MC Allied Health and Nursing (OVERALL)	61%	83%	90%	160	144	Yes	Yes		
072001 Health Science and Technology	57%	85%	95%	40	38	Yes	Yes	10/5/2015	Yes
072035 Principles of Allied Health	63%	77%	88%	40	35	Yes	Yes	10/5/2015	Yes
072050 Patient Centered Care	73%	89%	95%	40	38	Yes	Yes	10/5/2015	Yes
072150 Medical Terminology	52%	81%	83%	40	33	Yes	Yes	10/5/2015	Yes

Individual Report

STUDENT:	Section:	Module Name:	Cutoff Score:	Advanced Cutoff:	Student Cumulative %Score:	Total Questions Possible:	Total Questions Attempted:	Number Correct:	Passing:	Passed (OVERALL):	Passing (Advanced):	Passed (Advanced):
John Doe	25MC	Allied Health and Nursing (OVERALL)	61%	83%	90%	160	160	144	Yes	Yes	Yes	Yes
	072001	Health Science and Technology	57%	85%	95%		40	38	Yes		Yes	
	072035	Principles of Allied Health	63%	77%	88%		40	35	Yes		Yes	
	072050	Patient Centered Care	73%	89%	95%		40	38	Yes		Yes	
	072150	Medical Terminology	52%	81%	83%		40	33	Yes		Yes	

Expanded Report



Aggregate Report

School Year: **2014-2015**

John Doe
All Locations
All Students
25MC - Allied Health and Nursing

Module/Test:	Cutoff Score:	Class Avg%:	Total Students:	Total Passing:	Percent Passing:
Allied Health and Nursing (OVERALL)	62%	70%	81	71	88%

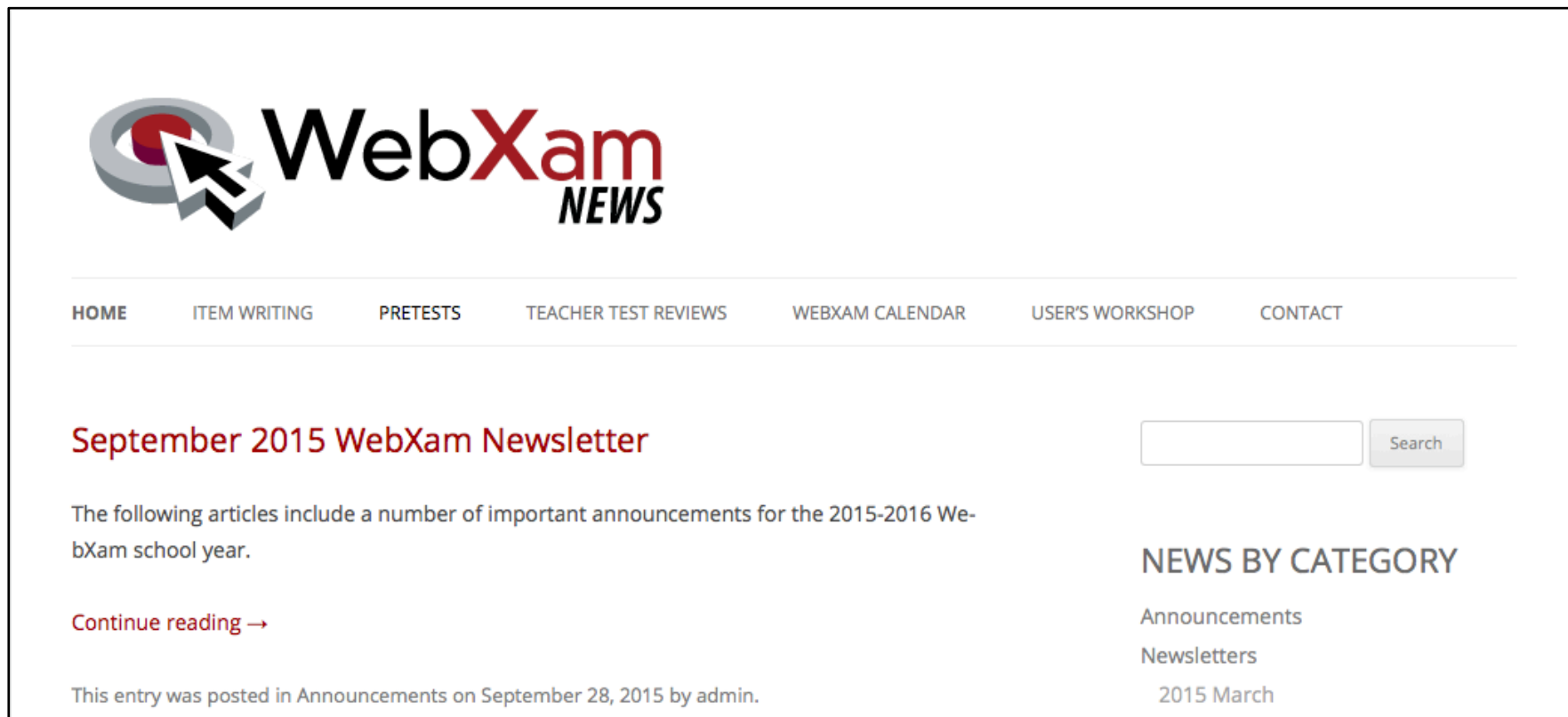
Aggregate Report

Administering an Exam

- Tests are timed: # minutes = # items
- Proctor is required, who
 - must be a paid employee of the school district.
 - must not be a student, student teacher, or unpaid volunteer.
 - does not need to be registered in WebXam.
- Teacher may be present in room to assist with technology and managing student interactions but should not observe computer screens of test takers.
- Students cannot use external reference material, resources, or devices with the following exceptions:
 - A calculator without memory
 - Scrap paper that is later collected
 - Any tool or device specified in a student's IEP or 504 Plan
- Testing Security Rule Book available on WebXam website
- Not permissible to disseminate content or share with students

WebXam News

- All email announcements are posted to news.webxam.org



The screenshot displays the WebXam News website interface. At the top left is the logo, which consists of a stylized mouse cursor icon pointing at a red and grey circular graphic, followed by the text "WebXam NEWS" in a bold, sans-serif font. Below the logo is a horizontal navigation menu with the following items: HOME, ITEM WRITING, PRETESTS, TEACHER TEST REVIEWS, WEBXAM CALENDAR, USER'S WORKSHOP, and CONTACT. The main content area features a red heading for "September 2015 WebXam Newsletter". Below this heading is a paragraph of text: "The following articles include a number of important announcements for the 2015-2016 WebXam school year." A red link "Continue reading →" is positioned below the paragraph. At the bottom left of the content area, a meta-information line reads: "This entry was posted in Announcements on September 28, 2015 by admin." On the right side of the page, there is a search bar with a "Search" button. Below the search bar is a section titled "NEWS BY CATEGORY" with a list of categories: "Announcements", "Newsletters", and "2015 March".

WebXam Support

- WebXam support can be reached at: webxam@osu.edu
- If the issue is urgent, WebXam can be reached at: 614-292-4988

WebXam Testing

The screenshot displays a web-based testing interface. At the top left is the WebXam logo. The title bar reads "01PR Practice Test" and includes a "Close [X] John Doe" button. Below the title bar, it shows "Answered: 2/10" and a progress bar. A grid of question numbers (1-10) is visible, with question 4 highlighted. The main content area shows "Question #4" with the text "One inch is approximately equal to _____ centimeters." and four radio button options: 10, 2.54, 3.24, and 5.14. Navigation buttons for "<< Back", "Next >>", and "Submit Test" are located at the bottom.

WebXam

01PR Practice Test Close [X] John Doe

Answered: 2/10

1 2 3 4 5 6 7
8 9 10

Question #4

One inch is approximately equal to _____ centimeters.

10
 2.54
 3.24
 5.14

<< Back Next >>

Submit Test

What's new in WebXam

- Changes to Text to Speech Support
- Outcome report
- SSID's
- Add test feature

Changes to Text-to-Speech Support

- Text-to-Speech (TTS) first rolled out in limited beta during Spring 2015.
- Made available to everybody at the beginning of the 2015-16 school year.
- **Browser Support**
 - Chrome v33+
 - Firefox v49+ (released on September 20th, 2016)
 - Edge v38.14393+ (released on August 20nd, 2016)
 - Safari v7+

Outcome Report

- New for 2016-17 school year, WebXam has added Outcome based reporting.
- Report is broken down by teacher by outcome.
- Report includes statewide averages for each outcome in order to provide benchmark.
- Historical data may be available depending on the course selected.

Copy Excel CSV

Search:

Construction Technologies

Percent Correct

Outcome Code ▲	Outcome	Your Students	Statewide
02.01	Site Safety: Handle materials, prevent accidents, and mitigate hazards.	53.33%	46.74%
02.02	Personal Safety: Practice personal safety in construction.	25%	34.2%
02.04	Equipment and Machinery Preventative Maintenance: Clean, maintain, and perform planned...	50%	42.17%
04.01	Electrical Theory: Explain electrical principles and theories.	45%	37.1%
04.02	Circuits: Analyze and evaluate direct current (DC) circuits and alternating current (AC)...	40%	29.57%
04.03	Codes and Regulations: Explain and apply the National Electrical Code (NEC) and other...	40%	30.92%
04.05	Electrical Wiring: Install wiring in residential, commercial, and industrial settings in...	25.71%	34.16%
06.04	Construction Drawings: Read and interpret plans and diagrams within a construction...	40%	38.72%
06.05	Construction Math: Calculate materials needed to complete construction projects.	22%	25.17%

Average Test Score

37.50%

35.05%

Outcome Report

Statewide Student Identifier Number (SSID)

- Previously we asked districts to come up with a locally derived unique identifier, called the EMIS ID.
 - Problems when student transfers from home school to career tech center, the identifier may change.
 - Often lead to students having duplicate accounts.
- New for the 2016-17 school year, WebXam received permission to have the student's SSID.
 - This will allow us to accurately report a student as they move from school to school.

Add Test

- Adds the ability to assign a new course to multiple students at once.
 - Previously the student's teacher would have to edit each account one by one, which could be time consuming.
- Add Test feature was released in Spring 2016.

Teacher:

Test:

Click the "GO" button to view the teacher's list of students.

Notes:

- Clicking "Add Test" will add the course or modular pathway test selected above. The student's other test will not change.

Results 1-2 of 2 Results per page Show Passwords ◀ 1 ▶

Sel	Username	Last Name	First Name	Location	Status
<input type="checkbox"/>	doe.0001	Doe	John	Example High School	Enabled
<input type="checkbox"/>	doe.0002	Doe	Jane	Example High School	Enabled

[Select All](#) [Deselect All](#)

 ◀ 1 ▶

Add Test

Survey

<http://go.osu.edu/webxam-users>