



**The Center on Education and Training for Employment (CETE)  
The Ohio State University  
College of Education and Human Ecology**

**Qualtrics Use Case: Administering surveys in a facilitated,  
face-to-face workshop format**

# Context

*CETE develops and maintains a state-wide testing system for career-technical education in Ohio*

- Develop tests in a facilitated, 4-day, face-to-face workshop
- Conducting ~16 workshops per academic year, ~88 tests
  - 10-20 participants per workshop

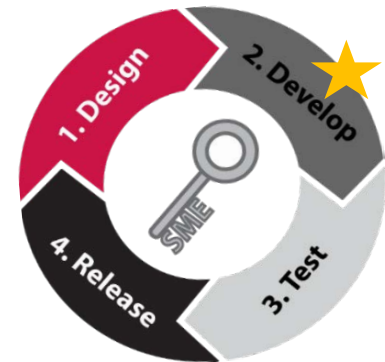
## Challenge: 4-day workshops

- Producing 90-95 test items x 5-6 tests = ~500 items per workshop
- Needed a way to collect teacher judgments on each item
  - Reproducible and timely method

## Solution: Qualtrics

- Use Qualtrics to create a reproducible survey for each test
  - Deliver on iPads
  - Collects teacher judgments on items

## *Test Development Cycle*



# Context

Test Development Phase	Tools & Technology
<b>Design</b> <ul style="list-style-type: none"><li>Plan for test and workshops</li></ul>	CETE Item Bank CETE Assessment Tool (CAT)
<b>Develop</b> <ul style="list-style-type: none"><li>CETE facilitates 4-day workshops: small, large group work</li><li>HS, PS teachers write items, review items, judge items</li></ul>	CETE Assessment Tool (CAT) iPads Qualtrics (data collection tool)
<b>Test</b> <ul style="list-style-type: none"><li>Field test (live student beta-test)</li><li>Analyze and create final test forms</li></ul>	WebXam test delivery platform CETE Item/Test Analysis Tool CETE Item bank Qualtrics (input to CETE tools)
<b>Release</b> <ul style="list-style-type: none"><li>On-demand, online test delivery</li></ul>	WebXam test delivery platform

CETE's assessment tool captures each test item

CETE Assessment Tool

Facilitator: Brooke Parker [logout] | SME:

Select Pathway:

Sample Items

Unit	01	Accounting	KEEP Cognitive: C1
Outcome	01.03	Sales and Receivables	UID: 42653 7 of 49
Comp	01.03.02	Process receivables	Show Learning Outcomes

Altice Lincoln's capital at the beginning of the accounting period was \$6,000. She withdrew \$400. Her capital at the end of the accounting period was \$6,300.

7. What was her net income?

A. \$300

B. \$400

C. \$700

D. \$100

SEARCH JUMP NEW EDIT COPY

Workshop Summary - One Level [PDF/Excel] | Two Level [PDF/Excel] | Content Validation - Full | Content Validation - Brief | Check Duplicates | **Get Survey**

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“Get Survey” produces export files

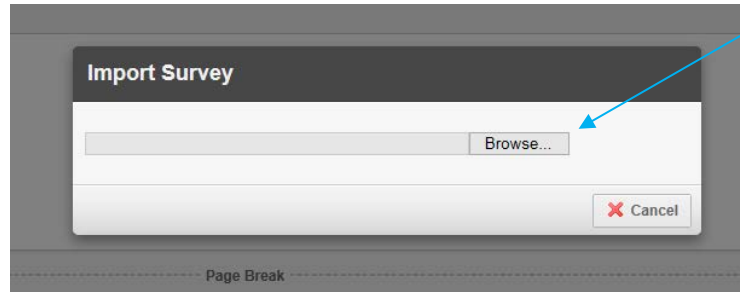
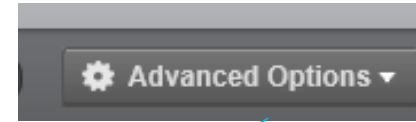
- Unique item-level data
- Code telling Qualtrics to create one question for each item in a test

```
File Edit Format View Help
[[AdvancedFormat]]
[[Question:TE:SingleLine]]
[[ID:user:Q0.0]]
iPad Number
[[Question:MC:SingleAnswer:Horizontal]]
[[ID:user:Q0.1]]
Position
[[AdvancedChoices]]
[[Choice:1]]
Instructor Post Secondary
[[Choice:2]]
Instructor Secondary
[[Choice:3]]
other
[[PageBreak]]
[[Question:Text]]
[[ID:61615:Q1.1]]
61615
[[Question:MC:SingleAnswer:Horizontal]]
[[ID:61615:Q1.2]]
would a minimally proficient student answer this item correctly?
[[AdvancedChoices]]
[[Choice:1]]
No
[[Choice:2]]
Yes
[[Question:MC:SingleAnswer:Horizontal]]
[[ID:61615:Q1.3]]
would a minimally advanced student answer this item correctly?
[[AdvancedChoices]]
[[Choice:1]]
No
[[Choice:2]]
Yes
[[Question:Matrix]]
[[ID:61615:Q1.4]]
Item Essentiality
```

Ln1, Col1

Use a "Template" survey in Qualtrics

- Import file under "Edit Survey"



Code builds survey automatically

- Repeats same question for each test item

55239-Q1.1	<b>55239</b> ()
55239-Q1.2	<b>Would a minimally proficient student answer this item correctly?</b> (No, Yes)
55239-Q1.3	<b>Would a minimally advanced student answer this item correctly?</b> (No, Yes)
55239-Q1.4	<b>Item Essentiality</b> (Essentiality of Item) (1 - Not Essential, 2, 3, 4 - Extremely essential)
55239-Q1.5	<b>Item Quality</b> (Quality of Item) (1 - Poor Quality, 2, 3, 4 - Good Quality)
55239-Q1.6	<b>Additional comments for this item?</b>

Teachers provide judgments using iPads

Data exported from Qualtrics into CETEs item bank, analysis tool

- Qualtrics data combines with data from other systems (WebXam, Item Bank)
- Ratings/judgments used in calculating test cutoff scores (i.e., pass/fail points)

ItemSet - ItemBank

apps.cete.osu.edu/ItemBank/VIPER/ItemSet?ItemSetId=489487

CETE Home SME Management App Mode

Hello hertzfeld.7! Log off

Type	Set	A	B	↓
k	84			
LO	0.4			
HI	0.9			
E	0			
Q	0			
C2	0.39			
SCEN	0.4			
DIFF	0.42			
DISC	0.18			
a	0.8			
SEM	4.18			
n	101.17			
pA	0.23			
pB	0.28			
pC	0.28			
pD	0.2			

Standards	Set	A	B	↓
03.02	8	0	0	0
06.01	17	0	0	0
06.04	38	0	0	0
06.05	21	0	0	0

Autogenerate Form A and Form B  
Size of Form A: 40 B: 40 ↓: 15

UID	Std	Cog	Scen	E	Q	LO	HI	DIFF	DISC	N	State	Form
52400	06.04.04	C1				.20	.60	.31	-.04	101	Drop Replace	A B
52408	06.04.03	C1				.60	1	.45	.17	100	Drop Replace	A B
52411	06.04.04	C1				.80	1	.50	.33	100	Drop Replace	A B
52412	06.04.04	C1				.80	.80	.43	.18	101	Drop Replace	A B
52414	06.04.04	C1				.40	.80	.42	.09	101	Drop Replace	A B
52416	06.04.04	C1				.60	1	.41	.16	101	Drop Replace	A B
52432	06.05.01	C2	Yes				1	.19	.06	102	Drop Replace	A B
52438	06.05.01	C2	Yes				.75	.09	-.06	102	Drop Replace	A B
52444	06.05.01	C2	Yes				.50	.35	.11	102	Drop Replace	A B
52448	06.04.04	C1				.67	1	.65	.12	100	Drop Replace	A B
52449	03.02.02	C1				.20	1	.57	.34	102	Drop Replace	A B
52451	03.02.02	C1					1	.37	.08	102	Drop Replace	A B
52459	03.02.01	C2	Yes			.20	1	.31	.17	101	Drop Replace	A B
52469	03.02.04	C2	Yes			.80	1	.41	.39	101	Drop Replace	A B