

# edTechnicians

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## ASSESSMENTS



# ASSESSMENT

Our programs utilize the most advanced psychometric and big data analytics to provide internal (learner performance and programmatic evaluation) and external insights (national, programmatic normative data and accreditation outcomes) .

Our approach transforms stale test banks and ineffective cram courses into an integrated exam preparation and/or predictive exam program that aligns to providers' educational track curriculum.

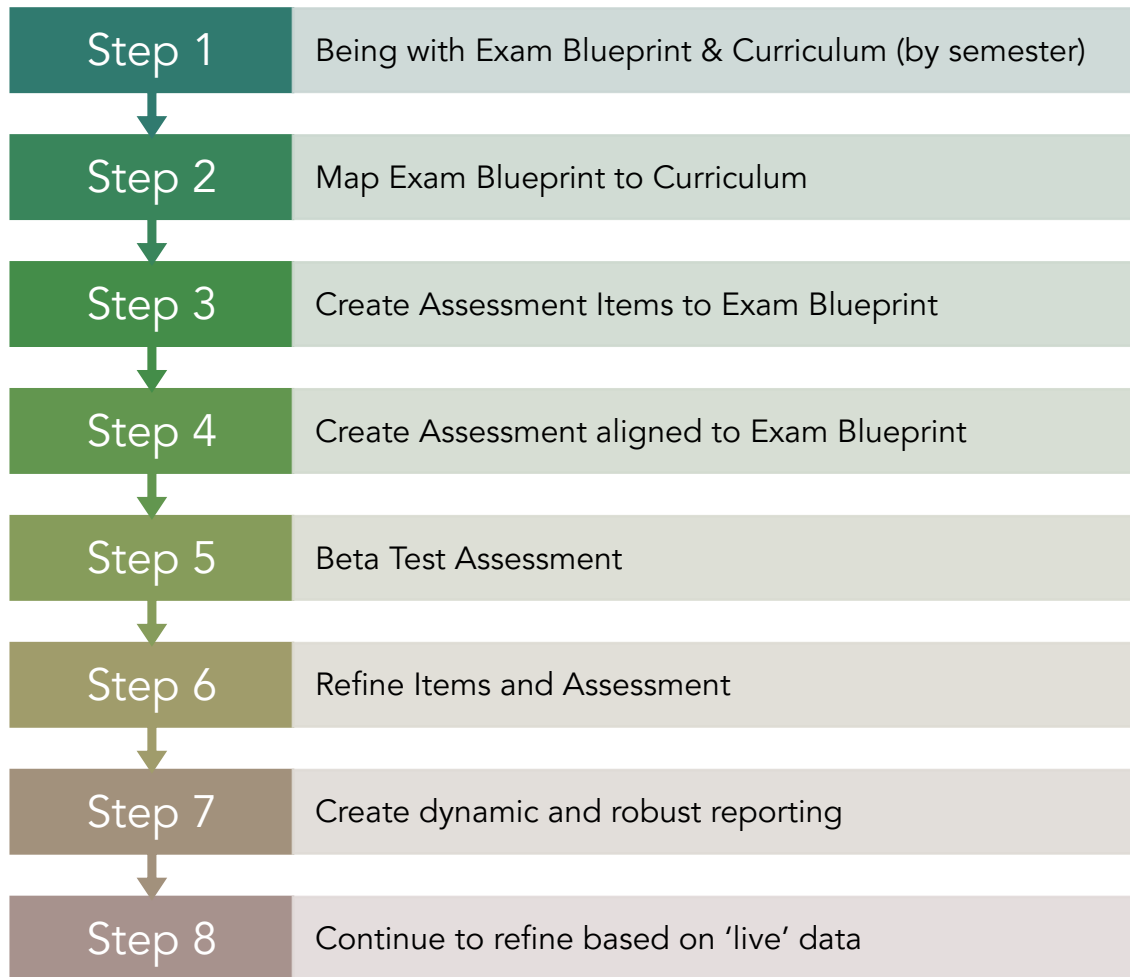
Our innovative product integrates into existing educational learning architecture (i.e., LMS). This prevents the need for logging in to multiple systems and seamless data integration.

- In a modern world, degrees, certifications, and credentials are all valued equally by employers.
- We provide convergence between education and professional credentials that disrupt traditional certification and licensure exam preparation with a formative approach that integrates with a degree and non-degree educational tracks.
- We identify high demand areas in the financial services, medical, and information technology industries that require standardized licensures or certifications, formal education in a fractured exam preparation landscape.
- We create innovative test preparation experiences that improve user satisfaction and accurately measure outcomes.



# EXAM PREPARATION

- Goal is to improve exam readiness through standardized FORMATIVE preparation
  - Aligned to Curriculum
- We will partner with content/review providers to build/implement integrated assessment
- Can also add a 'predictive' component
  - Guaranteed to Pass (GTP)





# EVIDENCE BASE RESEARCH

- Formative Assessment
  - Aligns standards, content, and assessment
  - Allows for the purposeful selection of learning strategies
  - Embeds assessment in instruction
  - Properly guides instructional decisions

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Greenstein (2010)



Formative assessment is designed to provide feedback on performance and to improve/accelerate learning.



This technique is significantly more effective when it is embedded in teaching/learning activities. This facilitates the ongoing and actionable feedback to learners.



BMC Med Educ 19, 230, 2019



# EVIDENCE BASE RESEARCH

- Formative assessment helps **professors:**
  - Consider each student's learning needs and styles and adapt accordingly
  - Track individual achievement
  - Provide appropriately challenging/motivational instruction
  - Design intentional and objective self-assessments
  - Offer all students opportunities for improvement

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Greenstein (2010)





# EVIDENCE BASE RESEARCH

- Formative Assessment benefits to **Students**:
  - Emphasizes learning outcomes
  - Makes goals and standards transparent to students
  - Provides clear assessment criteria
  - Closes the gap between what students know and desired outcomes
  - Provides feedback that is comprehensible, actionable, and relevant
  - Provides valuable diagnostic information by generating informative data

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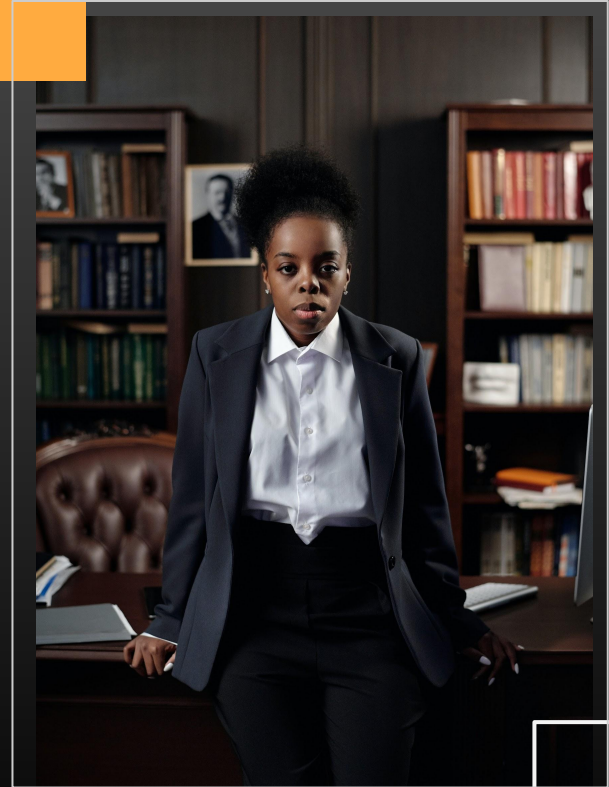
Greenstein (2010)





# EVIDENCE BASE RESEARCH

Positive evidence that formative assessments help **law student** performance on a cumulative final exam (Sargent and Curcio, 2012).



# EVIDENCE BASE RESEARCH

Analysis on **Medical School** students showed weekly assessment and practice exam performance had a measurable positive relationship with final exam performance (Chang and Wimmers 2016).





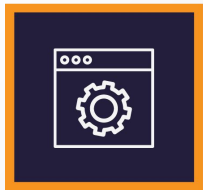
## PROPOSED AREAS OF

# FOCUS

## INTEGRATED EXAM PREPARATION

- High demand areas
  - ◆ Financial Services
  - ◆ Medical / Health Care / Wellness
  - ◆ Information Technology
  - ◆ Trades
- Require standardized licensures/certifications
- Formal education
- Fractured exam preparation landscape





# ASSESSMENT TOOL / PLATFORM



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Refining work on an assessment platform

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Cloud based

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Ability to support IRT (3P)

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Will be API native and support LTI/API integrations with LMS Providers

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Ability to launch exams from inside a students LMS experience

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Will have the reports/visualizations inside the LMS

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Delivery reliability at a minimum of 3 'nines', but the goal is 5 'nines'

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# WIREFRAME(S) & STORYBOARDS



## ASSESSMENT TOOL / PLATFORM

### Test name

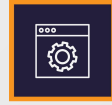
Test description long test

Rectangular Snip

Text area for instructions for the test if the user wants to show here

Please click **Start** button when you are ready to begin this test

Start



### Test name

⌚ 00:21

Test description long test

1 of 3

Rectangular Snip

The Great Wagon Road ran from

- ☐ Pennsylvania to New England.
- ☐ Georgia to New England.
- ☐ Pennsylvania to New York.
- ☐ Pennsylvania to Georgia.

Item 1

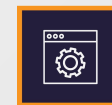
Item 2

Item 3


Next ►




# WIREFRAME(S) & STORYBOARDS



## ASSESSMENT TOOL / PLATFORM

 Logo

DashboardItem BankTestsExamineesAnalytics



### Collection name 1



ItemsTagsAssetsActivity Log


Unique referenceDescriptionAll TagsStatusAdd Item

PREVIOUS1 to 25 of 4943SortNEXT

7df01bee-81a0-4aab-a02f-5a9e56ce982e  
Question title Question title Question title



Multiple choicePassage


 Published  
 4 days ago

 Tags (2)  
Subject: **English**  
Course: **Literature**

Item ID  
Question title 2



Multiple choicePassageAudio


 Published  
 4 days ago

 Tags (2)  
Subject: **Math**  
Course: **Science**

ItemID3  
Question title 3

Multiple choice

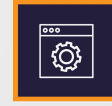
 Published  
 4 days ago

 No Tags


Mouseover will show user name and exact date/time in tooltip




# WIREFRAME(S) & STORYBOARDS



ASSESSMENT  
TOOL / PLATFORM

 Logo

DashboardItem BankTestsExamineesAnalytics



### Collection name 1

ItemsTagsAssetsActivity Log

← BACK

SAVE

This Item is used in Tests. Any change will impact all Tests

Item unique reference:

This is test Question reportsapi-tests-provision-question provisioned in Organisation (a.k.a Item bank) 6

Risus i et tincidunt turpis facilisis. Curabitur eu nulla justo. Curabitur vulputate ut nisl et bibendum. Nunc diam enim, porta sed eros vit dignissim, et tincidunt turpis facilisis. Curabitur eu nulla justo. Curabitur vulputate ut nisl et bibendum.

Choice AChoice B

This is your question text of multiple choice

☐ [Choice A]

☐ [Choice B]

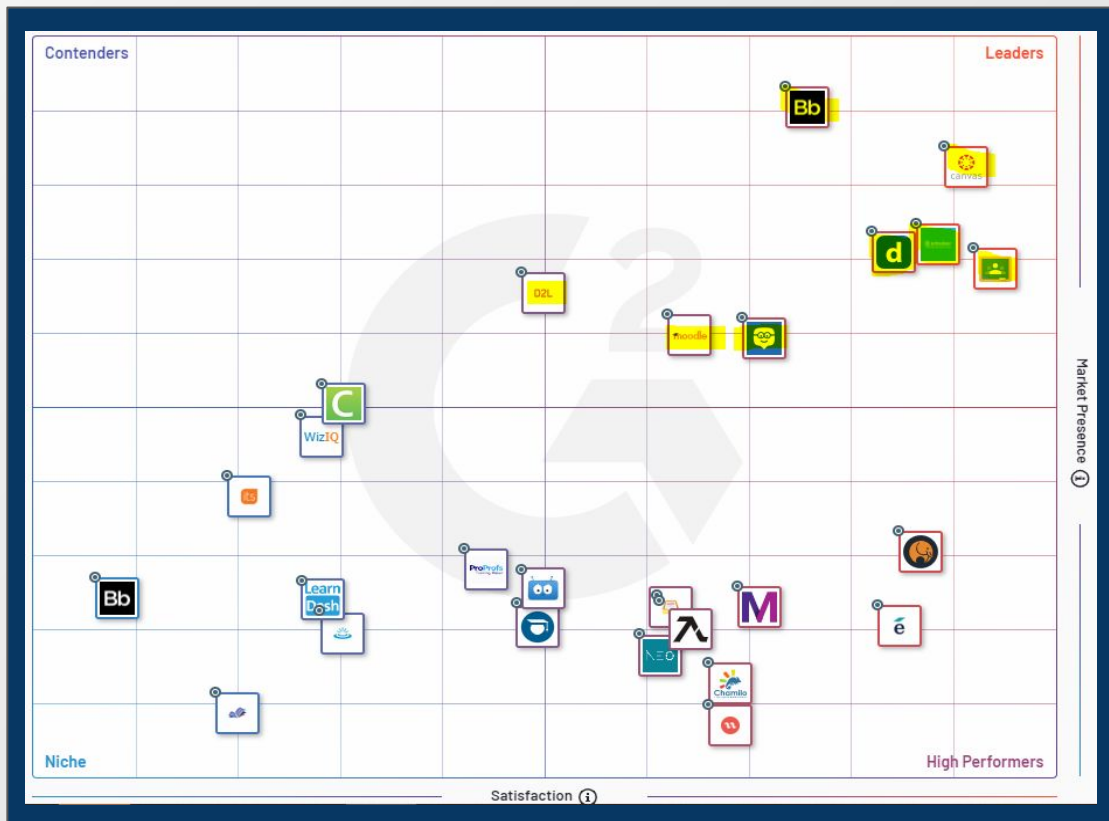
☐ [Choice C]





- Blackboard
- Canvas
- Docebo
- Google Classroom
- Schoology
- Moodle
- Brightspace
- Edmodo

<https://www.g2.com/categories/learning-management-system-lms>





# TARGETED CREDENTIALS

## LICENSES / ORGANIZATION

- Accounting (CPA)
- Engineering (CMS)
- American Sign Language (ASL)
- Construction Management
- Construction QA/QC
- Building Inspection Technology
- Corrections
- Personal Training/Wellness Coach
- Paralegal
- Certified Infection Control (CIC)
- Certified Financial Planner (CFP)
- Certified Dental Assistant (CDA)
- Certified Orthodontic Assistant (COA)
- Certified Pharmacy Tech (CPhT)

- Certified Senior Advisor (CSA)
- Risk and Insurance Management (RIMS)
- Project Management Professional (PMP)
- National Center for Construction Education and Research
- Personal Financial Planner (PFP)
- Certified Analytics Professional (CAP)
- American Society for Clinical Pathology
- Certified Medical Assistant (CMA)
- Wound Care
- ACE & ACSM
- Board Certified Behavior Analyst (BCBA)
- HRCI
- National Association of Legal Assistants (NALA)
- Physician Assistant

# EXAMPLES



<https://dalton-education.com/cfp-education-courses>



<https://umiami.dalton-education.com/>



# WHITE PAPER

EMBEDDING  
CERTIFICATIONS  
INTO BACHELOR'S  
DEGREES

CERTIFICATION-  
DEGREE  
PATHWAYS  
PROJECT





# EXAM BLUEPRINT

# Uniform CPA Examination® Blueprints

Approved by the Board of Examiners  
American Institute of CPAs

Oct. 23, 2020

Effective date: July 1, 2021



# CURRICULUM

Term	Course	CPA Preparation Alignment 1
<b>FRESHMAN YEAR</b>		
<b>Semester I</b>	<b>Units</b>	<b>Assessment</b>
ECON 101	Principles of Microeconomics	
MATH 115	College Algebra 3	
CC or electives 9		
<b>Semester II</b>		
ECON 102	Principles of Macroeconomics	BEC Area II: Economic Concepts and Analysis
ITMG 100	Information Systems	BEC Area IV: Information Technology
MATH 130		
<b>SOPHOMORE YEAR</b>		
<b>Semester I</b>		
ACCT 201	Principles of Financial Accounting	
ECON 216	Statistics for Business and Economics 4	
CC or electives 9		
<b>Semester II</b>		
ACCT 202	Principles of Managerial Accounting	
FINA 300	Financial Management	BEC Area I: Corporate Governance
MKTG 300	Fundamentals of Marketing	
CC or electives 6-9		
<b>JUNIOR YEAR</b>		
<b>Semester I</b>		
ACCT 300	Intermediate Accounting I	
ACCT 302	Cost Accounting	
DSCI 300	Prescriptive Business Analytics	
MGMT 300	Organizational Behavior	
CC or electives 3		
<b>Semester II</b>	Hours	
ACCT 301	Intermediate Accounting II	
ACCT 303	Accounting Information Systems	
ACCT 320	Ethics for Accountants	AUD Area I Ethics, Professional Responsibilities, and General Principles
DSCI 303	Operations Management	BEC Area V: Operations Management
or PHIL 332	Business and Society	BEC Comprehensive Predictor
	Business Ethics	
CC or electives 3		
<b>SENIOR YEAR</b>		
<b>Semester I</b>	Hours	
ACCT 306	Federal Tax Accounting I	REG Area I: Ethics, Professional Responsibilities and Federal Tax Procedures
ACCT 401	Advanced Accounting	
ETLW 311	Business Law	REG Area II: Business Law
CC or electives 6		
<b>Semester II</b>		
ACCT 407	Federal Tax Accounting II	REG Area IV: Federal Taxation of Individuals
ACCT 408	Auditing	AUD Area II: Assessing Risk and Developing a Planned Response



# FORMATIVE ASSESSMENT

Formative Assessment	Length and weight	Item Types	Delivery
AUD Area I: Ethics, Professional Responsibilities, and General Principles	50 Items 45 Scored 5 unscored	MQC and Simulations	Linear OTF
AUD Area II: Assessing Risk and Developing a Planned Response	50 Items 45 Scored 5 unscored	MQC and Simulations	Linear OTF
AUD Area III: Performing Further Procedures and Obtaining Evidence	60 Items 55 Scored 5 unscored	MQC and Simulations	Linear OTF
AUD Area IV: Forming Conclusions and Reporting	30 Items 25 Scored 5 unscored	MQC and Simulations	Linear OTF
AUD Comprehensive Predictor	60 Items 55 Scored 5 unscored	MQC and Simulations	Linear OTF
BEC Area I: Corporate Governance	50 Items 45 Scored 5 unscored	MQC and Simulations	Linear OTF
BEC Area II: Economic Concepts and Analysis	50 Items 45 Scored 5 unscored	MQC and Simulations	Linear OTF
BEC Area IV: Information Technology	30 Items 25 Scored 5 unscored	MQC and Simulations	Linear OTF
BEC Area V: Operations Management	30 Items 25 Scored 5 unscored	MQC and Simulations	Linear OTF
BEC Comprehensive Predictor	60 Items 55 Scored 5 unscored	MQC and Simulations	Linear OTF
FAR Area I: Conceptual Framework, Standard-Setting, and Financial Reporting	50 Items 45 Scored 5 unscored	MQC and Simulations	Linear OTF
FAR Area II: Select Financial Statement Accounts	60 Items 55 Scored 5 unscored	MQC and Simulations	Linear OTF
FAR Area III: Select Transactions	30 Items 25 Scored 5 unscored	MQC and Simulations	Linear OTF
FAR Area IV: State and Local Governments	30 Items 25 Scored 5 unscored	MQC and Simulations	Linear OTF
FAR Comprehensive Predictor	60 Items 55 Scored 5 unscored	MQC and Simulations	Linear OTF
REG Area I: Ethics, Professional Responsibilities and Federal Tax Procedures	30 Items 25 Scored 5 unscored	MQC and Simulations	Linear OTF
REG Area II: Business Law	30 Items 25 Scored 5 unscored	MQC and Simulations	Linear OTF
REG Area III: Federal Taxation of Property Transactions	30 Items 25 Scored 5 unscored	MQC and Simulations	Linear OTF
REG Area IV: Federal Taxation of Individuals	30 Items 25 Scored 5 unscored	MQC and Simulations	Linear OTF
REG Comprehensive Predictor	60 Items 55 Scored 5 unscored	MQC and Simulations	Linear OTF
Comprehensive CPA Predictor (CCP)	180 Items 170 Scored 10 unscored	MQC and Simulations	Linear OTF

# REPORTING

## Group Performance Profile CPA\* Attestation and Auditing Area I

Assessment #:	3914332	Adjusted Group Score:	53.8%
Institution:	University of Miami	% of Group Meeting	
Program Type:	BA	Institution Benchmark:	N/A
Group Size:	11		
Test Date:	10/15/2020		
# of Questions:	60		

### Group Performance Summary Table

Proficiency Level	Individual Score Required for Proficiency Level	% and # of Group at Proficiency Level
Level 3	73.3% - 100.0%	9.1% (1)
Level 2	63.3% - 71.7%	9.1% (1)
Level 1	50.0% - 61.7%	54.5% (6)
Below Level 1	<50.0%	27.3% (3)
Note: Proficiency Levels pertain to individual scores only. Group scores are not classified by proficiency level.		

Individual Mean-National 59.5%	Individual Mean-Program 59.9%
% of Group Above Individual Mean-National 27.3%	% of Group Above Individual Mean-Program 27.3%

### Group Performance in the Major Content Areas

Sub-Scale	# Items	Group Score
Nature and scope	3	42.4%
Ethics, independence, and professional conduct	7	57.1%
Terms of engagement	2	31.8%
Requirements for engagement documentation	5	47.3%
Communication with management	9	65.7%
Communication with component auditors	15	58.8%
A firm's system of quality control	19	44.5%

NOTE: Means and percentile ranks are not presented for sub-scales with fewer than five items.

# REPORTING

## Group Scores

Sub-Scale	# Items	Group Score	Group Score (% correct)											
			1	10	20	30	40	50	60	70	80	90	100	
<b>Nature and Scope</b>	3	42.4%					▲							
Audit Engagements	1	18.2%			▲									
Engagements Conducted Under: GAO and Other	2	54.5%							▲					
<b>Ethics, independence, and professional conduct</b>	7	57.1%							▲					
AICPA Code of Professional Conduct	2	31.8%				▲								
Requirements of SEC	4	61.4%								▲				
Requirement of GAO	1	90.9%											▲	
<b>Terms of Engagement</b>	2	31.8%				▲								
Preconditions of an Engagement	1	9.1%		▲										
Terms of Engagement- Engagement Letter	1	54.5%							▲					
<b>Requirements for Engagement Documentation</b>	5	47.3%							▲					
Identify the elements	1	9.1%		▲										
Identify the requirements	1	63.6%									▲			
Prepare documentation	1	45.5%							▲					
Prepare Conclusion	2	59.1%									▲			
<b>Communication with management</b>	9	65.7%									▲			
Planned Scope and Timing of Engagement	3	78.8%											▲	
Internal Control	2	72.7%										▲		
Related Matters	1	54.5%								▲				
Quality Control	3	43.2%						▲						

# REPORTING

## Topics To Review

	% of students answering the Item Correctly
<b>Nature and Scope (3 items)</b>	
<b>Audit Engagements (1 item)</b>	
Identify the nature, scope and objectives of the different types of audit engagements, including issuer and nonissuer audits	18.2%
<b>Engagements Conducted Under GAO (2 Items)</b>	
Identify the nature, scope and objectives of engagements performed in accordance with GAO	18.2%
Identify the nature, scope and objectives of attestation engagements	90.9%
<b>Ethics, independence, and professional conduct (7 items)</b>	
<b>AICPA Code of Professional Conduct (2 Items)</b>	
Apply the Conceptual Framework	18.2%
Recognize situations that present threats to compliance	45.5%
<b>Requirements of SEC (4 items)</b>	
Understand the ethical requirements	18.2%
Recognize situations that present threats to compliance	54.5%
Apply the ethical requirements and independence rules	72.7%
Health Promotion of the Infant (Birth to 1 Year): Recognizing Developmental Delays	100.0%
<b>Requirements of GAO (1 item)</b>	
Understand the ethical requirements	90.9%
<b>Terms of Engagement (2 items)</b>	
<b>Preconditions for an engagement (1 item)</b>	
Identify the preconditions needed for accepting or continuing an engagement	9.1%
<b>Engagement Letter (1 item)</b>	
Identify the factors affecting the acceptance or continuance of an engagement.	54.5%

# REPORTING

## Outcomes

<b>AACSB Continuous Improvement</b>	<b>No of Items</b>	<b>Group Score</b>	<b>Description</b>
Foundational Thinking in Accounting	16	51.1%	Ability to recall and comprehend information and concepts foundational to quality accounting practice.
Professional Judgment/Critical Thinking in Accounting	44	52.9%	Ability to use critical thinking skills (Interpretation, analysis, evaluation, inference, and explanation) to make a professional judgment

<b>Regional Accreditation Self Study</b>	<b>No of Items</b>	<b>Group Score</b>	<b>Description</b>
	8	50.0%	Ability to demonstrate professional judgment in making decisions about priority responses to a client problem.



# REPORTING

### Individual Scores

Individual Mean-National = 59.5%

**Individual Mean-Program = 59.9%**

[illegible]



# REPORTING

## Score Explanation and Interpretation Group Performance Profile

**Group Score:** This score is determined by adding all of the individual scores from the group and dividing the sum by the number of individuals in the group. This group score describes how, on average, the students within the group performed on the assessment (or within a designated sub scale).

Sum of Individual Scores Within the Group  
Number of Individuals in the Group = Group Score

For example:

$40.7\% + 53.2\% + 80.4\% + 70.8\% + 82.1\% = 63.2\%$   
5 Individuals in the Group

Group scores can be interpreted through "criterion-referenced" or "norm-referenced" measures. Criterion-referenced measures are best used to determine if an established standard has been met (e.g., % of students achieving a particular score or proficiency level). Norm-referenced measures can be useful for comparing performance to other students or groups.

**Pretest Items:** There are 5 unscored pretest questions throughout the assessment, and 80 scored questions. The pretest questions are used for research purposes.

### Criterion-Referenced ATI Proficiency Levels:

These classifications were developed as the result of a national standard setting study conducted by EG, involving nurse educator content experts from across the U.S. The classifications apply only to individual scores, and not to groups. The level 1, 2, and 3 standards do not pertain to group scores.

**Level 3** - Scores meeting the Proficiency Level 3 standard may be considered to exceed most expectations for performance in this content area. Scores at this level were judged by the content expert panel to indicate a student as likely to exceed CPA standards in this content area. ATI advises these students to engage in continuous focused review to maintain and improve their knowledge of this content.

**Level 2** - Scores meeting the Proficiency Level 2 standard may be considered to exceed minimum expectations for performance in this content area. Scores at this level were judged by the content expert panel to indicate a student as fairly certain to meet CPA standards in this content area. EG advises these students to engage in continuous focused review in order to improve their knowledge of this content.

**Level 1** - Scores meeting the Proficiency Level 1 standard may be considered to meet the absolute minimum expectations for performance in this content area. Scores at this level were judged by the content expert panel to indicate a student as likely to just meet CPA standards in this content area. EG advises these students to develop and complete a rigorous plan of focused review in order to achieve a firmer grasp of this content.

**Below Level 1** – Scores below the Proficiency Level 1 standard can be considered below minimum expectations and may be indicative of significant risk in this content area. We strongly advise these students to develop and complete an intensive plan for focused review and remediation, including the use of our materials, textbooks, class notes, reference materials, and assistance from educators.

### Norm-Referenced Measures:

Means and percentile ranks can be useful for comparing performance to other nursing education groups, both nationally and within the same Accounting program type. These means and percentile ranks are initially set on a volunteer norming sample. They are reviewed annually, and may be periodically reset as more students take the assessments.

#### Mean - National:

The group mean - national is the average of all group scores (within a specified sample from the data pool) for this assessment. The group mean - national includes all accounting program types. The individual mean - national is based on ACC student scores from all ACC program types.

#### Mean - Program:

The group mean - program is the average of all group scores of your ACC program type (within a specified sample from the data pool) for this assessment. The individual mean - program is based on ACC student scores from your program type.

#### Percentile Rank - National:

The national percentile rank refers to the proportion of groups from all types of ACC nursing programs (within a specified sample from the ACC data pool) whose scores are the same as or lower than your group score.

#### Percentile Rank - Program:

A program percentile rank refers to the proportion of groups from your specific type of ACC nursing program (within a specified sample from the data pool) whose scores were the same as or lower than your group score.

**NA:** Data not available

#### Topics to Review:

Based on the questions missed on this assessment, a listing of content areas and topics to review is provided. A variety of learning resources may be used in the review process, including content, images, animations and videos in select components of our Review Modules, and online practice assessments.

#### Institution Benchmark:

Institutions have the option to set their own benchmarks. If your institution has not set a benchmark for the assessment, this score report field will be reported as "NA".

# COLLABORATION



DO YOU HAVE  
ANY QUESTION



