2025 Item Development & Test Form Assembly Report

Prepared for:

Prepared by:

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Summary

Creating exam items and assembling a final test is a thoughtful, step-by-step process. It starts once the purpose of the exam is clear, the subject area is well understood, and the standards for what test-takers should know or be able to do are set.

Subject matter experts met on February 25, 2025, to discuss what a minimally qualified candidate was and update the blueprint to reflect the results of the Job Task Analysis Survey. These specifications outline the content the exam should cover and give item writers a clear blueprint for the kinds of questions that are needed. With those specs in place, item writers can begin developing items that accurately reflect the expectations of the exam.

Exam item specifications were created to outline the areas that will be assessed on the exam. These specifications serve as a blueprint for item writers, guiding the development of meaningful, high-quality questions. With these guidelines in place, the item development process can begin.

During this stage, the subject matter experts noted that a greater proportion of exam content should focus on medical knowledge rather than professional practice knowledge. Their perspective is based on the reality that facilities typically handle their own training, policies, and oversight related to professional practice. In contrast, medical knowledge benefits from a standardized assessment that ensures all candidates are evaluated on the same core clinical understanding and decision-making skills, regardless of where they work. Emphasizing medical knowledge on the exam helps establish a consistent, objective benchmark of clinical competence across varied healthcare environments, supporting quality and safety in patient care.

Subject Matter Selection

Subject Matter Experts (SMEs) were selected by assembling a committee of professionals with strong knowledge and experience in the field to guide the process. For this item development and review panel, SMEs were chosen based on their years of practice as Surgical Assistants – Certified (SA-C) and their overall understanding of the surgical first assistant role and work environment. The American Board of Surgical Assistants (ABSA) also made an effort to recruit SMEs from different regions and backgrounds to ensure a well-rounded and representative panel.

Table 1 lists the experienced professionals who participated in this process.

Table 1. Subject Matter Expert (SME) members

Name	Credentials	Location	Yrs as SA-C
Aide Paula	MD, SA-C	Northeast	7
Chika Anthony Obimah	MD, SA-C	South	6
Daniel Segui	MD, IFAANS, SA-C	South	22
Dusko Mirjanic	BS, SA-C	Midwest	9
Fahad Anwer	BS, SA-C	Midwest	3
Jean Guy Honore	MD, SA-C	South	3
Justin Steullet	SA-C	Midwest	21
Martha Weeks	RN, BSN	Midwest	1
Paul Weeks	MD, ScD/PhD, SA-C	Midwest	36
Ronald Zapata	MD, SA-C	other	3
Salam Abdo	MD, PhD, BSN, RN, SA-C	South	11

Item Writing Assignment

After SMEs are trained in best practices, see Appendix A: 2025 ABSA Item Writing Guide, and the test blueprint has been finalized, the item-writing stage begins. This is a key step in making sure the exam accurately reflects all required content areas. Each SME is assigned portions of the blueprint that align with their expertise, and they develop questions based on those specific content areas. Table 2 illustrates the number of new items created for this exam.

Table 2. Number of Items

Domain	Existing	New	Approved	Rejected	Total	#/form
1. Perioperative						
Preoperative	37	0	22	15	37	5
Operative						
General Surgery	108	4	93	19	112	17
Orthopedic Surgery	39	19	50	8	58	12
Plastic/Reconstructive Surgery	32	5	35	2	37	12
Gynecological Surgery	27	5	28	4	32	11
Varied Other Surgical Specialties	34	17	44	7	51	12
Postoperative	15	0	14	1	15	5
2. General Surgical & Medical Knowledge						
Asepsis	21	2	21	2	23	5
Surgical Anatomy	88	30	103	15	118	22
Terminology	31	16	47	0	47	12
BLS	14	2	14	2	16	5
Surgical Instrumentation & Equipment	42	0	34	8	42	5
General Medical Knowledge	47	15	53	9	62	15
3. Professional Practice Knowledge						
Patient Safety/Risk Management/Emergency Protocols	30	4	27	7	34	4
Code of Ethics/Scope of Practice	8	32	31	9	40	5
OSHA/HIPAA	14	27	30	11	41	3
Totals	**587**	**178**	**646**	**119**	**765**	**150**

Additional information can be found in the following Appendices:

- See Appendix B: 2025 ABSA Item Writing Checklist
- See Appendix C: 2025 ABSA Test Specifications
- See Appendix D: 2025 ABSA Blueprint
- See Appendix E: 2025 ABSA Scorpion Platform Instructions

Psychometric Edit

Susan Weaver (VP of Exam Development, Caveon, LLC) reviewed each item for psychometric quality, examining clarity, the strength and plausibility of distractors, and overall structural consistency. Items are evaluated for cognitive complexity, potential language bias, readability, and alignment with the exam's intended goals. Any issues related to grammar, punctuation, or style are flagged for revision to ensure each item meets high professional standards.

Technical Review

Following the initial psychometric review, all new and revised items are subjected to a technical review by SMEs. This step ensures every question:

- Matches the blueprint and measures what it's supposed to
- Is relevant to the surgical assistant's role
- Is factually accurate, with correct answers and plausible distractors
- Is appropriate in difficulty for the target audience

Reviewed items were either approved as is, updated and approved, or rejected from the item bank as determined by the SME panel.

Table 2, Number of Items, represents each domain the subject matters experts used to create and review items. The table details the existing items and newly written items in each domain. All items were reviewed and the number of items approved, rejected or put on hold is listed.

Pass Score Setting

The Modified Angoff standard setting method involved a panel of SMEs who reviewed each item in the exam bank and estimated the performance of minimally qualified candidate (MQC). For each item, each SME documented the probability that a MQC would answer each item correctly. After the initial round of independent ratings, SMEs met over a Zoom meeting to discuss discrepancies and assumptions. During this discussion, SMEs were given the opportunity to revise their initial item rating if their opinion of the performance of the MQC had changed. Finally, these probabilities were averaged across all items and across all SMEs to establish the cut score for this exam. The Recommended Modified Angoff derived cut score for the exam is: 70%

The Certification Council then reviewed the recommended cut score.

Please see Appendices F and G for more information on the Standard Setting process.
See Appendix F: 2025 ABSA Modified Angoff Standard Setting Results.
See Appendix G: 2025 ABSA Modified Angoff Standard Setting Report.

Final Edit

A final, comprehensive edit is performed by an item-writing expert (Susan Weaver, VP of Exam Development, Caveon, LLC). This review ensures all technical and psychometric revisions have been incorporated, and that terms and style remain consistent across the exam.

Form Creation

Certification exams typically use several forms to enhance security and fairness. Each form maintains equal weighting. This approach ensures fairness by allowing all candidates to experience an exam of comparable difficulty, regardless of the form they were assigned. It also allows retakes and recertification exams to be different, so that someone who has already seen a form does not gain an unfair advantage by seeing the same form again. This supports fair score interpretation and minimizes overexposure of items. Our goal is to ensure that scores across different versions of the test form are comparable – i.e., a score of 82/100 (or (82%) on one form reflects the same level of ability as 82% achieved on another form. For this cycle, three equated forms were developed by referencing 1) the exam blueprint and 2) the cut score derived through Modified Angoff standard setting methodology. To calculated these scores, Existing Items utilized their pValue scores and New Items their Modified Angoff scores.

The blueprint developed during Job Task Analysis was used to guide form construction. The blueprint includes target weights for each objective attained from a panel of SMEs who estimated the frequency and relevance of each objective on a scale of 1-5 and 1-4 respectively. Ultimately, this determined how many items per objective would appear on each form.

Using the derived cut score as reference (see the Pass Score Setting section of this report), the forms were built through manual assembly. The appropriate number of items per objective were assigned to each form to ensure structural equivalence, and item allocation to forms were adjusted as needed to

ensure that each form had a difficulty level that matched the Modified Angoff derived cut score.

Refer to Appendix H – 2025 ABSA Forms Build, All Stats tab, to display the outcome of this distribution. The forms difficulty weightings were 71.24 for Form A, 71.26 for Form B, and 71.27 for Form C. The ratio of Existing Items to New Items was 59/91 for Form A, 57/93 for Form B, and 62/88 for Form C.

Table 3 represents the exam specifications with domain, percentages and number of items allocated for each domain. Table 4 represents the form item allocation reflecting the Existing Item and New Item distribution.

Table 3. Exam Specifications

Domain	***Content Area***	***Number of Items***	***Percent***
1.	**Perioperative**	**74**	**49%**
1.1	Preoperative	5	
1.2	Operative		
1.2.1	General Surgery	17	
1.2.2	Orthopedic Surgery	12	
1.2.3	Plastic/Reconstructive Surgery	12	
1.2.4	Gynecological	11	
1.2.5	Varied Other Surgical Specialties	12	
1.3	Postoperative	5	
2.	**General Surgical and Medical Knowledge**	**64**	**43%**
2.1	Asepsis	5	
2.2	Surgical Anatomy	22	
2.3	Terminology	12	
2.4	BLS	5	
2.5	Surgical Instrumentation & Equipment	5	
2.6	General Medical Knowledge	15	
3.	**Professional Practice Knowledge**	**12**	**8%**
3.1	Patient Safety/Risk Management/Emergency Protocols	4	
3.2	Code of Ethics/Scope of Practice	5	
3.3	OSHA/HIPAA	3	

Table 4. Item Allocation per Form

Domain	#Items/form	# Existing Items Form A	# Existing Items Form B	# Existing Items Form C	# New Items Form A	# New Items Form B	# New Items Form C
1. Perioperative							
Preoperative	5	2	2	2	3	3	3
Operative							
General Surgery	17	1	1	2	16	16	15
Orthopedic Surgery	12	6	4	4	6	8	8
Plastic/Reconstructive Surgery	12	6	6	8	6	6	4
Gynecological Surgery	11	7	8	9	4	3	2
Varied Other Surgical Specialties	12	4	6	6	8	6	6
Postoperative	5	0	2	3	5	3	2
2. **General Surgical & Medical Knowledge**							
Asepsis	5	3	3	2	2	2	3
Surgical Anatomy	22	9	8	9	13	14	13
Terminology	12	3	3	3	9	9	9
BLS	5	5	5	5	0	0	0
Surgical Instrumentation & Equipment	5	5	3	4	0	2	1
General Medical Knowledge	15	8	5	5	7	10	10
3. Professional Practice Knowledge							
Patient Safety/Risk Management/Emergency Protocols	4	0	1	0	4	3	4
Code of Ethics/Scope of Practice	5	0	0	0	5	5	5
OSHA/HIPAA	3	0	0	0	3	3	3
Totals	**150**	**59**	**57**	**62**	**91**	**93**	**88**

Exam Publishing

Once the forms are finalized, quality assurance checks are performed to confirm that each version functions as intended and scoring is accurate. After passing Quality Assurance checks, the forms are published and made available for candidates.

Psychometric Evaluation

Caveon recommends that after 100 exam administrations, a statistical analysis of each item using classical test statistics is conducted.

- **P-value:** Measures the proportion of candidates answering an item correctly. Items that are too easy or too hard may not be effective.
- **Point Biserial Correlation:** Assesses how well an item distinguishes between high- and low-performing candidates. Items with low correlations may not contribute to accurate scoring.

Exam items are evaluated and poorly performing items are identified. Caveon will provide possible reasons for items performing poorly and will work with ABSA SMEs to revise or replace items as needed.

Caveon will also calculate reliability statistics. The reliability statistics indicate the consistency of exam performance and is a foundational standard for judging the quality of an exam. It is a reflection in large part of the performance of the items.

Summary

The process of item development and form assembly is both comprehensive and rigorous. It begins with defining the purpose of the exam and concludes with the creation of balanced, well-validated test forms. Through careful planning, expert input, and thorough analysis, ABSA ensures that its certification exam remains a valid and reliable measure of professional competence for surgical assistants.

caveon
Test Security

Certification

Exam and Item Development

Agenda

Part 1: Process & MQC overview

Part 2: Item writing best practices

Part 3: Other considerations

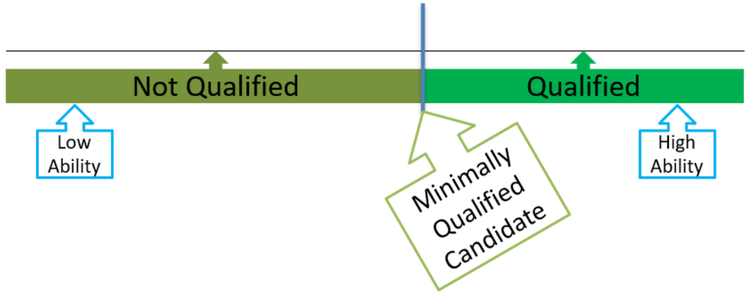
Part 4: Next steps

Certification overview

MQC

Minimally Qualified Candidate

- Makes it over the bar, but just so.
- Qualified with just enough skills to do the job.



Profile description

The minimally qualified candidate profile is a representation of the skills and experience of an individual who has “just enough skills to do the job” and is ready to pass the 2025 ABSA Surgical Assistant - Certified examination.

The 2025 ABSA Surgical Assistant - Certified professional should have the following background:

- Enough knowledge and skills to continue with a procedure, to prevent patient injury, until another qualified surgeon arrives.
- Minimum of 24 months (2 years) hands-on clinical surgical scrub experience.
- Basic knowledge of PreOperative, IntraOperative, and PostOperative procedures.
- Basic knowledge of Medical Terminology.
- Basic knowledge of Human Anatomy.

Blueprint

1. Perioperative						**49%**		**# items to present**
	1.1 Preoperative						4.00%	5
		1.1.1 Chart Review						
		1.1.2 Patient Consent						
		1.1.3 Regional Anesthesia						
	1.2 Operative							
		1.2.1 General Surgery					11.00%	17
		1.2.2 Orthopedic Surgery					8.00%	12
		1.2.3 Plastic Reconstructive Surgery					8.00%	12
		1.2.4 Gynecological					8.00%	11
		1.2.5 Varied Other Surgical Specialities					8.00%	12
	1.3 Postoperative						3.00%	5
		1.3.1 Phases of wound healing						
		1.3.2 Immediate postop complications - EKG recognition						
2. General Surgical and Medical Knowledge						**43%**		
	2.1 Asepsis						3.00%	5
	2.2 Surgical Anatomy						15.00%	22
	2.3 Terminlology						8.00%	12
	2.4 BLS						3.00%	5
	2.5 Surgical Instrumentation & Equipment						3.00%	5
	2.6 General Medical Knowledge						10.00%	15
3. Professional Practice Knowledge						**8%**		
	3.1 Patient Safety/Risk Management/Emergency Protocols						3.00%	4
	3.2 Code of Ethics/Scope of Practice						3.00%	5
	3.3 OSHA/HIPAA						2.00%	3
						100.00%		**150**

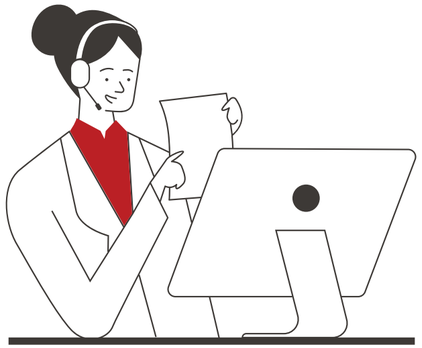
Your role as the item developer

IMPORTANT:

- Exam security is of utmost importance!
- Do not disclose exam content to anyone.

Item writing: Overview

Item anatomy



ITEM

Objective	1.1 Know the features that differentiate the Subaru Impreza from competitors in its class.
Stem	A sales associate at a Subaru dealership is trying to sell a customer a new Subaru Impreza. The customer says they are also considering the new Toyota Prius. What is one feature the Impreza offers that the Prius does not? — Question
Options	a. all-wheel drive — Key b. heated seats c. hybrid capabilities d. power steering — Distractors

A complete item may also includes:

- Option rationales (justifying why an answer is correct or incorrect)
- Item reference (the Learn page aligned to the item)

Cognitive Difficulty

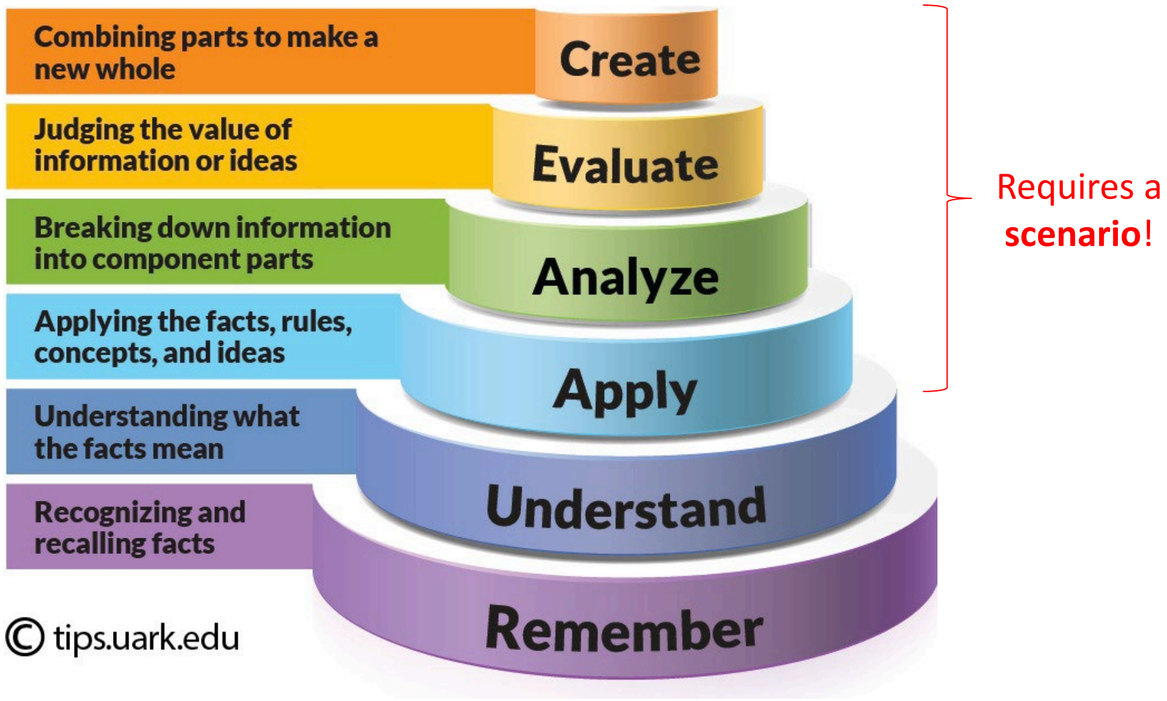
Associated with exam objectives

The amount of mental effort required to perform a task.

Why does it matter?

Ensure items are written at the correct level.

1. Recall
2. Understand / Apply
3. Analyze / Evaluate / Synthesize



Item writing: Best practices

Want to write the
BEST exam items?

Adhere by these
5 rules!

The big 5 rules

1. Item must have all its essential parts.
- Stem,
- options
  - Key(s)
  - Distractors

2. Item must be Congruent.

3. Item must be Accurate.

4. Item must be Relevant.

5. Item must be appropriately Difficult.

“CARD”- approved

Item writing is a skill.

Write to a global audience.

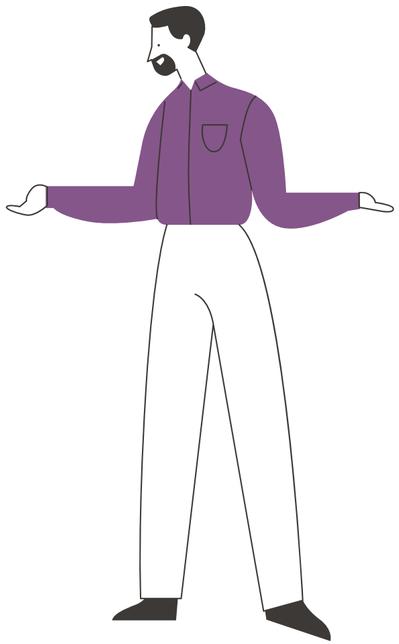
Additional guidelines

<u>Overall:</u>

1. Language:
   - Use clear, direct, and simple language. Use “You…”
   - Avoid referring to gender, ethnicity, and cultural groups.
   - Be grammatically correct and properly punctuated.
2. Use terms consistently throughout the exam.
3. Do not try to “trick” the candidates.

<u>Stem:</u>

1. Provide all the information needed to respond to the item.
2. Do not provide clues as to which option is correct.
3. Do not use absolutes (e.g., all, every, none,…)
4. Avoid using negative wording in the question statement. (e.g., Which action should you NOT perform?)



Distractors are often the most difficult part of item writing.

Answer options

1. Distractors must be plausible.
   - Draw on your plentiful experience!
   - Distractors cannot be made up! E.g. „no fake product or feature names.
2. Options must be parallel.
   - Similar format, content (amount of details), tone, length
3. Options must answer the question.
4. Options must be mutually exclusive.

Unacceptable distractors

- Slight variations of the same answer to trick the candidate
- “All of the above”
- “None of the above”
  - Other forms of this such as “None” or “Nothing” or “This cannot be done.”

The American Board of Surgical Assistants

CHECKED	DESCRIPTION
	Each item covers core content that is important for the candidate to know for the exam
	Each item is written to a specific content area in the test specifications
	Each item stem is written in the positive (e.g., no use of EXCEPT, NOT, etc.)
	Each item stem is written in the correct tense (e.g., avoid the use of second person)
	Questions about specific numbers/percentages are included only if considered core knowledge
	Each item is clear and concise, with no unnecessary wording
	If any item includes graphical material, the media is original and not taken from a reference or the media is cited
	Each item is presented as a single select multiple choice item with 4-options
	Each item has only one correct answer
	The answer options for each item are parallel in length and structure
	The distractor options for each item are feasible and realistic
	The correct answer to the item does not include: ALL OF THE ABOVE or NONE OF THE ABOVE
	Each item written includes an appropriate reference or rationale
	Information on gender and ethnicity is only included if necessary to answer the question to avoid bias/stereotypes

The American Board of Surgical Assistants

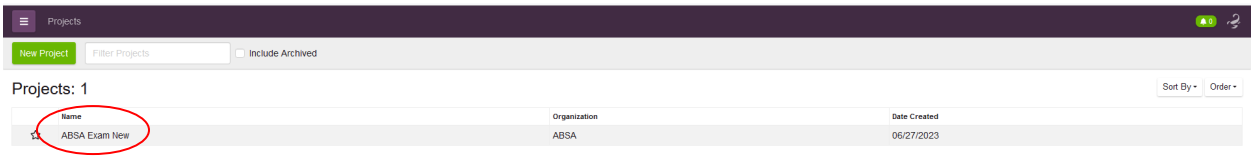
ABSA Test Specifications (Blueprint)

Domain	*Content Area*	*Number of Items*	*Percent*
1.	**Perioperative**	**79**	**49%**
1.1	Preoperative	5	
1.2	Operative		
1.2.1	General Surgery	17	
1.2.2	Orthopedic Surgery	12	
1.2.3	Plastic/Reconstructive Surgery	12	
1.2.4	Gynecological	11	
1.2.5	Varied Other Surgical Specialties	12	
1.3	Postoperative	5	
2.	**General Surgical and Medical Knowledge**	**64**	**43%**
2.1	Asepsis	5	
2.2	Surgical Anatomy	22	
2.3	Terminology	12	
2.4	BLS	5	
2.5	Surgical Instrumentation & Equipment	5	
2.6	General Medical Knowledge	15	
3.	**Professional Practice Knowledge**	**12**	**8%**
3.1	Patient Safety/Risk Management/Emergency Protocols	4	
3.2	Code of Ethics/Scope of Practice	5	
3.3	OSHA/HIPAA	3	

								# items to present	items available			# items In Bank	# items Approved	# items On Hold			
1. Perioperative						**49%**											
	1.1 Preoperative						4.00%	5	37			37	22	15			
	1.2 Operative																
		1.2.1 General Surgery					11.00%	17	112			112	93	19			
		1.2.2 Orthopedic Surgery					8.00%	12	58			58	50	8			
		1.2.3 Plastic Reconstructive Surgery					8.00%	12	37			37	35	2			
		1.2.4 Gynecological					8.00%	11	32			32	28	4			
		1.2.5 Varied Other Surgical Specialities					8.00%	12	51			51	44	7			
	1.3 Postoperative						3.00%	5	15			15	14	1			
2. General Surgical and Medical Knowledge						**43%**											
	2.1 Asepsis						3.00%	5	23			23	21	2			
	2.2 Surgical Anatomy						15.00%	22	118			118	103	15			
	2.3 Terminology						8.00%	12	47			47	47	0			
	2.4 BLS						3.00%	5	16			16	14	2			
	2.5 Surgical Instrumentation & Equipment						3.00%	5	42			42	34	8			
	2.6 General Medical Knowledge						10.00%	15	62			62	53	9			
3. Professional Practice Knowledge						**8%**											
	3.1 Patient Safety/Risk Management/Emergency Protocols						3.00%	4	34			34	27	7			
	3.2 Code of Ethics/Scope of Practice						3.00%	5	40			40	31	9			
	3.3 OSHA/HIPAA						2.00%	3	41			41	30	11			
						100.00%		**150**	**765**			765	646	119			

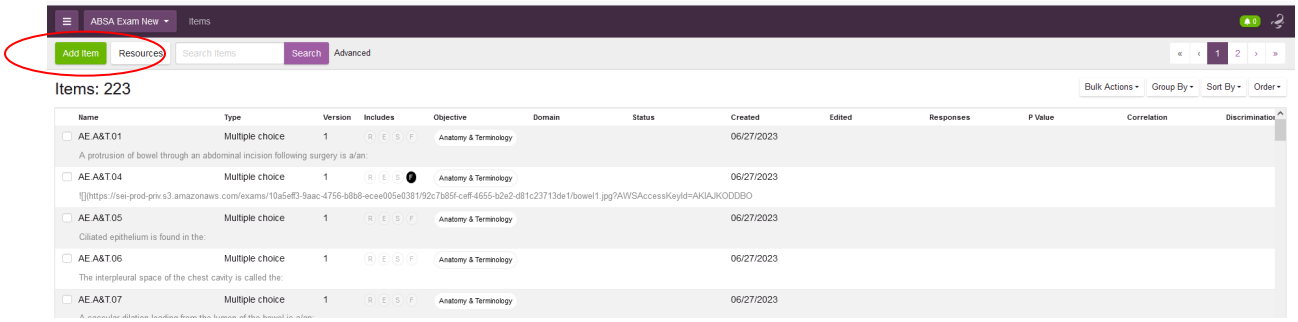
Entering Multiple Choice Items in Scorpion (platform)

Select ABSA Exam New



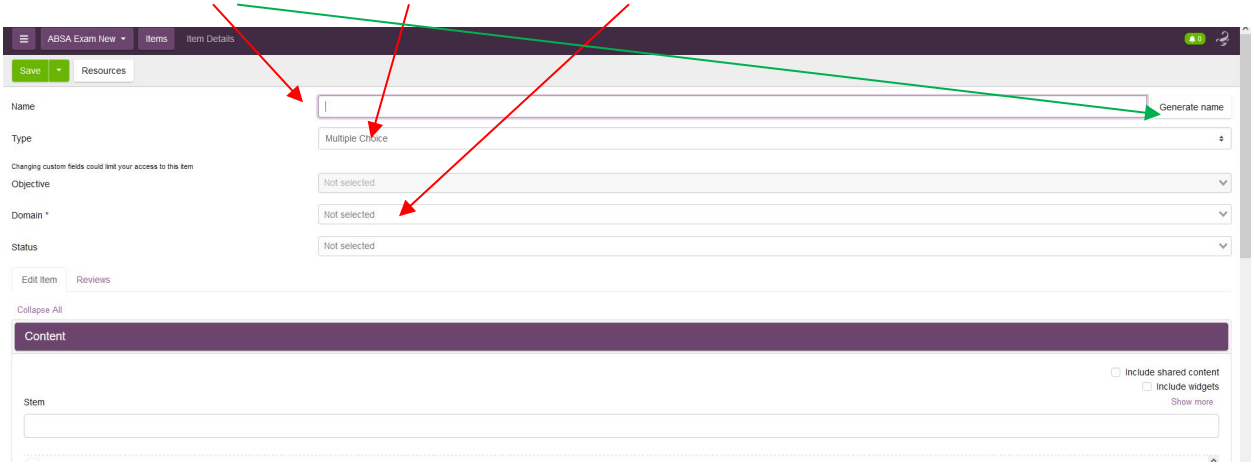
Items currently in system are old questions that we will review at a later date.

Select Add item



Multiple Choice Items

Enter: Name Type Domain

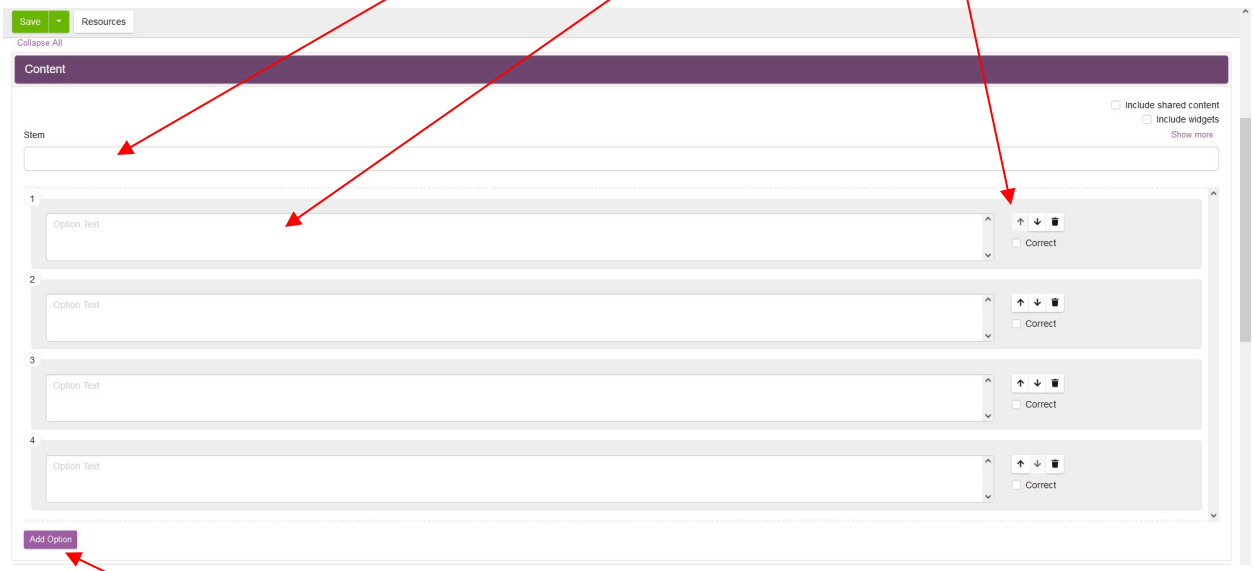


Select Domain you are writing an item for (drop down list)

Click “Generate Name” Generate name will provide you with name for item (generated from Domain)

Type: Select Multiple Choice

Enter Item Information Stem Correct Answer & Distractors Mark Correct Answer



Stem: The question you are asking

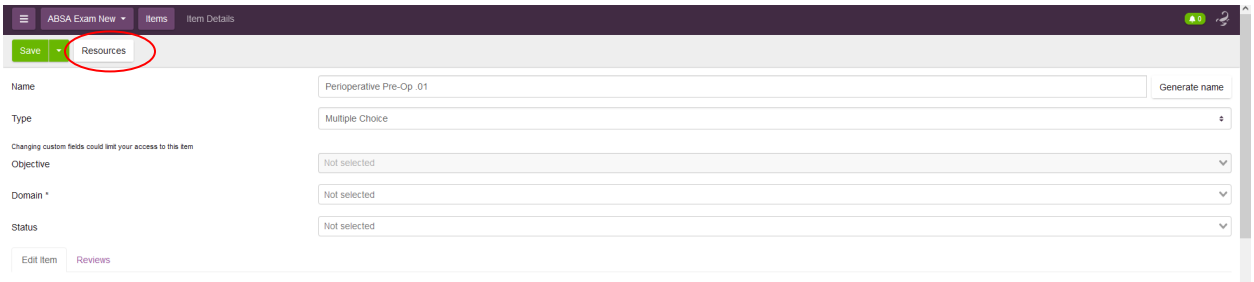
Correct Answer & Distractors: 1 correct answer and minimum of 3 valid distractors. If you want to add more distractors, click add option.

Mark Correct Answer: Click box for correct answer

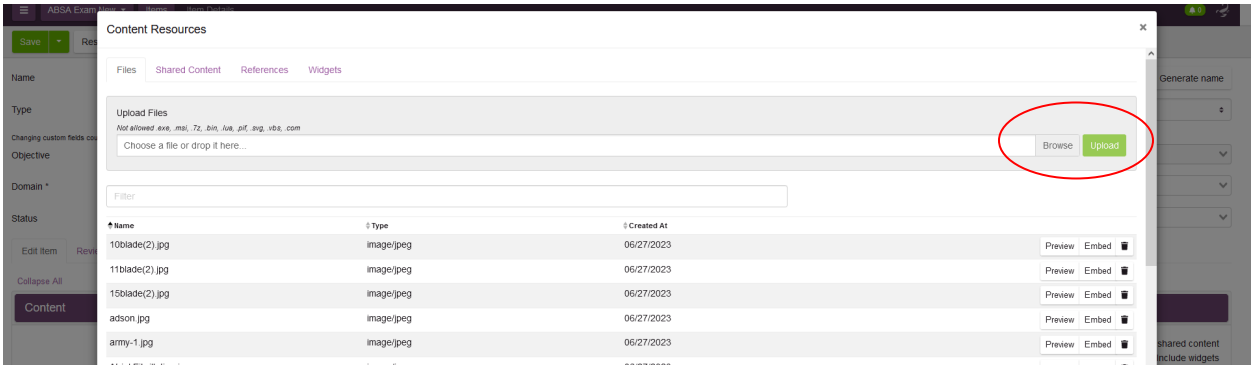
If you are adding an item that you are using an image.

Make sure you have image on computer and file name corelates to image.

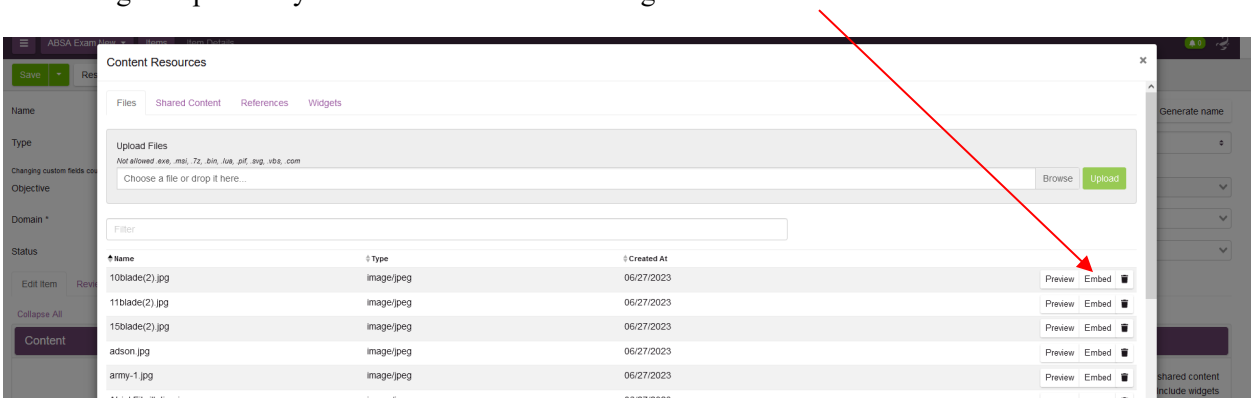
Select Resources



Select Browse, locate image and select upload



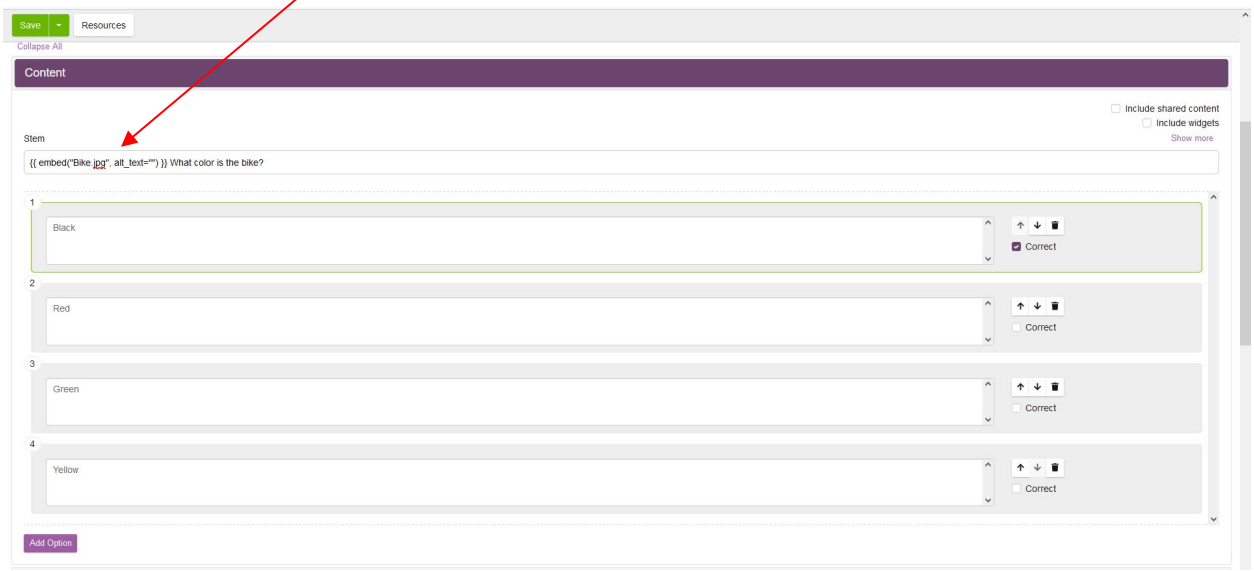
After image is uploaded you will scroll and locate image and click “Embed”



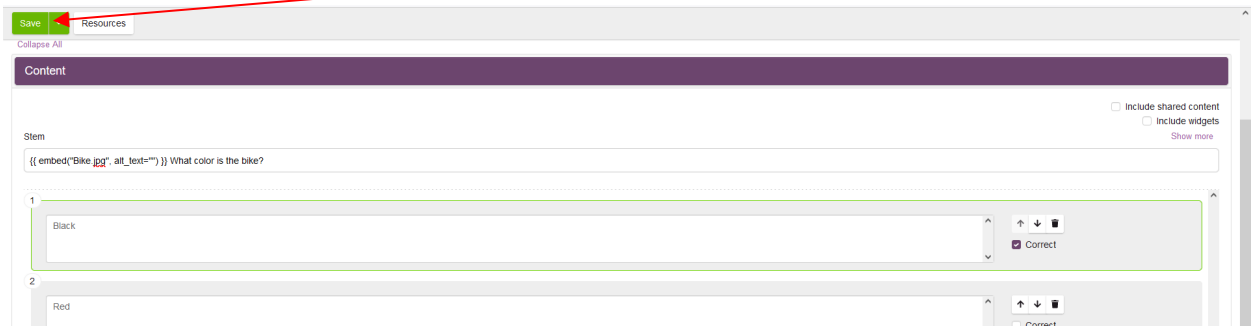
Select “copy” next to Smart Embed

Close out of resources tab so you are back on Items page

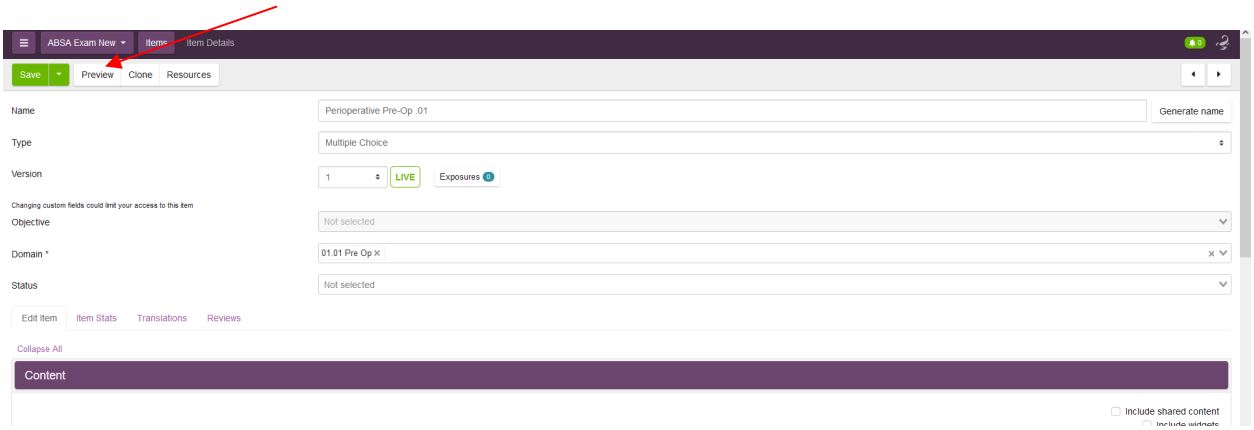
Paste embedded image into stem field. You can type item after or before image depending on how you want image to show.



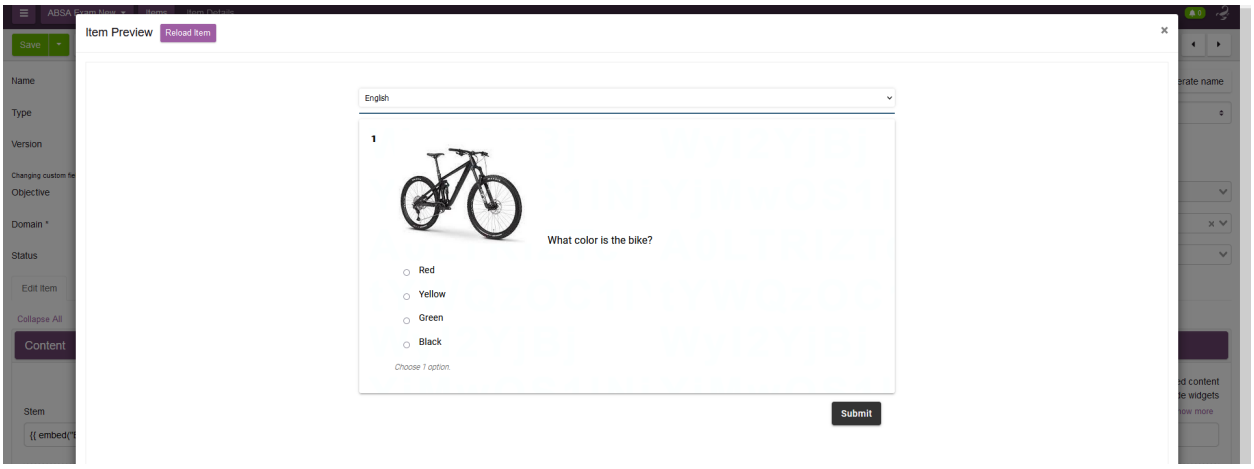
After all fields are completed, you will click “Save”



After you save click Preview. This will allow you to see how the item will look on exam.



For the following example, when previewing it looks like I should move stem below image. I would exit out of preview and update stem so embedded image is above stem.



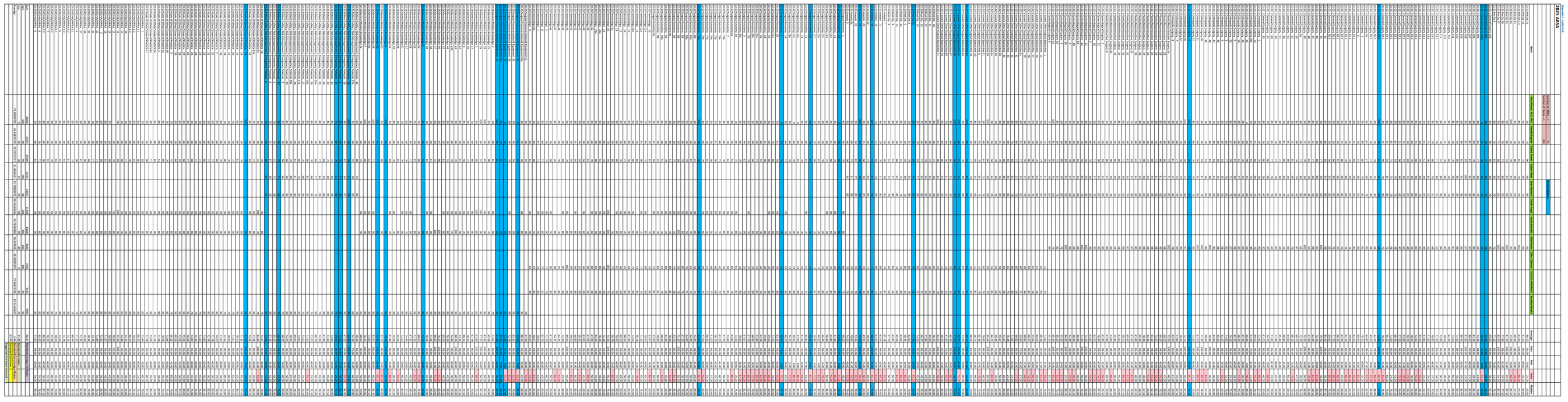
Any questions please email Veronica at office@absa.net or call/text cell phone 303-994-8990

Appendix F

Tab Name	Contents
Comments	Original comments from the original pull
Initial Pull	All of the original statistics from the Modified Angoff
With items removed	All of the original statistics from the Modified Angoff, removing the items that were Rejected
Angoff 2 results	Modified Angoff Review 2 with SME changes
Existing Item Stats	Pvalue statistics from current exam items
Combined	Pass Rate statistics from the new items and the existing items

Appendix F - Comments

Item ID	User	Comment
01.01 Pre Op 34	Paul Weeks, MD, PhD	Not a surgical assistant question rather a nursing question
01.01 Pre Op 36	Paul Weeks, MD, PhD	2 correct answers - anesthesia & the surgeon
01.01 Pre Op 36	Ronald Zapata	Anesthesia can be changed
01.01 Pre Op 9	Paul Weeks, MD, PhD	poorly worded stem
01.02.1 General Surgery 42	Paul Weeks, MD, PhD	needs reworking, but good question
01.02.1 General Surgery 49	Salam Abdo	The question stem did not follow the correct sequence... it should be Cecum, then Ascending colon... (then transverse, descending, sigmoid, and finally the rectum.) This is order is reversed during endoscopy (colonoscopy)... The question can be more precise if stated the type of procedure, otherwise some may select the Ascending, cecum, to the ileum.
01.02.1 General Surgery 103	Paul Weeks, MD, PhD	more medical than a surgical assistant should know (Diagnostics)
01.02.1 General Surgery 104a	Paul Weeks, MD, PhD	delete, as beyond the knowledge of an S.A., most will not know the meaning of devarication
01.02.1 General Surgery 105	Paul Weeks, MD, PhD	correct answer is long compared with distractors
01.02.1 General Surgery 105	Ronald Zapata	i agree
01.02.1 General Surgery 106	Paul Weeks, MD, PhD	2 answers could be considered correct
01.02.1 General Surgery 107	Paul Weeks, MD, PhD	2 answers could be considered correct
01.02.1 General Surgery 108	Paul Weeks, MD, PhD	2 answers could be considered correct
01.02.1 General Surgery 109	Paul Weeks, MD, PhD	2 answers could be considered correct
01.02.1 General Surgery 14.2	Paul Weeks, MD, PhD	correct answer too long
01.02.1 General Surgery 22.2	Paul Weeks, MD, PhD	distractors could be better
01.02.1 General Surgery 22.2	Ronald Zapata	I agree
01.02.1 General Surgery 24.3	Paul Weeks, MD, PhD	poor distractors
01.02.1 General Surgery 2a	Paul Weeks, MD, PhD	use Gynecomastectomy in place of Gynecomastia surgery
01.02.1 General Surgery 2a	Ronald Zapata	I agree
01.02.1 General Surgery 31.2	Paul Weeks, MD, PhD	2 answers the same
01.02.1 General Surgery 31.2	Ronald Zapata	Have to eliminate one: It could promote the rapid movement of food through the digestive tract.
01.02.2 Orthopedic Surgery 11	Paul Weeks, MD, PhD	most correct answer ...bubbles stop rising
01.02.2 Orthopedic Surgery 49	Paul Weeks, MD, PhD	Allograft is the most common type of bone graft with over 200,000 used annually
01.02.2 Orthopedic Surgery 6	Paul Weeks, MD, PhD	poor distractors
01.02.3 Plastic/Reconstructive Surgery 2a	Paul Weeks, MD, PhD	Wht should read What
01.02.3 Plastic/Reconstructive Surgery 2a	Ronald Zapata	i agree
01.02.4 Gynecological Surgery 1	Paul Weeks, MD, PhD	Usually an office procedure Letter "T" is missing in a distractor
01.02.4 Gynecological Surgery 28	Paul Weeks, MD, PhD	Uncontrolled bleeding would be a more correct answer
01.02.4 Gynecological Surgery 28	Ronald Zapata	i agree, can be either placenta accreta or uterine atony
01.02.5 Varied Other Surgical Specialties 25	Paul Weeks, MD, PhD	pulmonary artery is used both in the stem and only the correct answer
01.02.5 Varied Other Surgical Specialties 28	Paul Weeks, MD, PhD	add "surgery" to more answers
01.02.5 Varied Other Surgical Specialties 28	Ronald Zapata	i agree
01.02.5 Varied Other Surgical Specialties 31	Salam Abdo	This question will be difficult for those who do not do Roux-en-Y often since the only hint is small stomach pouch... adding a the word "rerouting" will make it much clearer (less trivial question) since many procedures aim to limit food intake.
01.02.5 Varied Other Surgical Specialties 32	Chika Obimah	Telesurgery same as remote surgery
01.02.5 Varied Other Surgical Specialties 6	Paul Weeks, MD, PhD	poor distractors
01.02.5 Varied Other Surgical Specialties 6	Ronald Zapata	more distractors
01.02.5 Varied Other Surgical Specialties 4a	Paul Weeks, MD, PhD	too many correct answers
01.02.5 Varied Other Surgical Specialties 4a	Ronald Zapata	yes
01.02.5 Varied Other Surgical Specialties 4a	Jean HonorÃ©	This question needs to be modified. They do not explain that multiple answers should be chosen
01.02.5 Varied Other Surgical Specialties 4a	Salam Abdo	This can be presented with EtCO2 as the only correct answer by removing the tachycardia and inc. temp. but then it may become a very easy question?
01.02.5 Varied Other Surgical Specialties 50	Paul Weeks, MD, PhD	ulcers take time to develop pressure sores would be more appropriate
01.02.5 Varied Other Surgical Specialties 50	Salam Abdo	Other rewrite (of the stem of the answer choices) such as "pressure injury... this is also can include documented problems with vision, ventilation, nerve compression, etc. For example, the re-write can state a "uncommon yet feared complication of prone surgical position is = post-operative visual loss (POVL) due to ischemic optic neuropathy or central retinal artery occlusion (CRAO)
01.02.5 Varied Other Surgical Specialties 62	Paul Weeks, MD, PhD	poor distractors
01.02.5 Varied Other Surgical Specialties 62	Ronald Zapata	yes
01.02.5 Varied Other Surgical Specialties 65	Paul Weeks, MD, PhD	poor distractors
01.02.5 Varied Other Surgical Specialties 65	Ronald Zapata	yes
01.02.5 Varied Other Surgical Specialties 66	Salam Abdo	The answer choices make this question very easy
01.02.5 Varied Other Surgical Specialties 67	Salam Abdo	Important question
01.03 Post Op 7a	Salam Abdo	Incentive spirometry
01.03 Post Op 15	Paul Weeks, MD, PhD	delete due to medical knowledge requirement
02.01 Asepsis 19	Paul Weeks, MD, PhD	poor distractors
02.01 Asepsis 21	Paul Weeks, MD, PhD	poor distractors
02.02 Surgical Anatomy 1	Ronald Zapata	It is diastasis
02.02 Surgical Anatomy 10	Paul Weeks, MD, PhD	medical not SA question
02.02 Surgical Anatomy 2	Paul Weeks, MD, PhD	delete due to a medical question abeve that of an SA
02.02 Surgical Anatomy 2	Ronald Zapata	medical knowledge
02.02 Surgical Anatomy 79a	Paul Weeks, MD, PhD	poor distractors
02.02 Surgical Anatomy 89	Ronald Zapata	Medical Knowledge
02.02 Surgical Anatomy 112	Chika Obimah	It's located primarily in the chest.it closely relates to the heart and innervates the diaphragm,but it's primary location is the chest region/ thorax
02.02 Surgical Anatomy 116	Chika Obimah	Has multiple answers
02.02 Surgical Anatomy 118	Ronald Zapata	Medical Knowledge
02.02 Surgical Anatomy 14a	Paul Weeks, MD, PhD	correct answer should be Uterosacral not Cardinal ligament
02.02 Surgical Anatomy 14a	Ronald Zapata	change the distractors
02.02 Surgical Anatomy 17a	Paul Weeks, MD, PhD	Trigeminal nerve is the correct answer (V3, Mandibular branch)
02.02 Surgical Anatomy 17a	Ronald Zapata	facial nerve is the right answer because the location of TMJ and its surgery location
02.02 Surgical Anatomy 30a	Paul Weeks, MD, PhD	consider rewording the stem
02.03 Terminology 20	Chika Obimah	Bonus question
02.03 Terminology 11a	Paul Weeks, MD, PhD	consider correct answer revision
02.03 Terminology 11a	Ronald Zapata	shorten the distractor : To decrease the production of stomach acid
02.03 Terminology 14a	Paul Weeks, MD, PhD	shorten the correct answer
02.03 Terminology 14a	Ronald Zapata	The rupture or bulging of an intervertebral disc
02.03 Terminology 2a	Paul Weeks, MD, PhD	revise correct answer
02.03 Terminology 46	Paul Weeks, MD, PhD	modify correct answer
02.05 Surgical Instrumentation & Equipment 33	Paul Weeks, MD, PhD	bad distractors
02.05 Surgical Instrumentation & Equipment 33	Martha Weeks	distractors are totally inappropriate
02.05 Surgical Instrumentation & Equipment 40	Paul Weeks, MD, PhD	all distractors need changing
02.05 Surgical Instrumentation & Equipment 40	Ronald Zapata	shorten
02.05 Surgical Instrumentation & Equipment 40	Martha Weeks	could use better distractors
02.05 Surgical Instrumentation & Equipment 42	Paul Weeks, MD, PhD	could use better distractors
02.05 Surgical Instrumentation & Equipment 32a	Paul Weeks, MD, PhD	needs better distractors
02.05 Surgical Instrumentation & Equipment 41a	Paul Weeks, MD, PhD	needs better distractors
02.06 General Medical Knowledge 25	Paul Weeks, MD, PhD	2 correct answers available, only one selected
02.06 General Medical Knowledge 25	Ronald Zapata	which one?
02.06 General Medical Knowledge 28	Paul Weeks, MD, PhD	needs better distractors
02.06 General Medical Knowledge 28	Ronald Zapata	yes
02.06 General Medical Knowledge 28	Martha Weeks	the correct answer is considerably longer than the distractors
02.06 General Medical Knowledge 39	Paul Weeks, MD, PhD	need better distractors
02.06 General Medical Knowledge 39	Ronald Zapata	To absorb blood and other fluids during the procedure change it
02.06 General Medical Knowledge 42	Martha Weeks	review distractors
02.06 General Medical Knowledge 5	Paul Weeks, MD, PhD	needs better distractors
02.06 General Medical Knowledge 56	Ronald Zapata	Medical Knowledge
02.06 General Medical Knowledge 6	Paul Weeks, MD, PhD	better distractors
02.06 General Medical Knowledge 60	Martha Weeks	malignant hypothermia should read malignant hyperthermia in the stem
02.06 General Medical Knowledge 66	Paul Weeks, MD, PhD	better distractors
02.06 General Medical Knowledge 66	Ronald Zapata	yes
02.06 General Medical Knowledge 68	Paul Weeks, MD, PhD	needs a better correct answer wording
02.06 General Medical Knowledge 68	Ronald Zapata	yes
02.06 General Medical Knowledge 6a	Paul Weeks, MD, PhD	modify correct answer
02.06 General Medical Knowledge 6a	Ronald Zapata	yes
02.06 General Medical Knowledge 7	Paul Weeks, MD, PhD	correct spelling error and shorten correct answer
02.06 General Medical Knowledge 7	Martha Weeks	Independent surgeon supervision (spelling)
02.06 General Medical Knowledge 7a	Paul Weeks, MD, PhD	shorten correct answer
02.06 General Medical Knowledge 7a	Ronald Zapata	the process of viewing the surgical field on a video monitor
03.01 Patient Safety / Risk Management / Emergency Protocols 18	Paul Weeks, MD, PhD	poor distractors
03.01 Patient Safety / Risk Management / Emergency Protocols 2	Paul Weeks, MD, PhD	modify distractors
03.01 Patient Safety / Risk Management / Emergency Protocols 21	Paul Weeks, MD, PhD	modify distractors
03.01 Patient Safety / Risk Management / Emergency Protocols 30	Salam Abdo	Safe operation & improved outcome
03.01 Patient Safety / Risk Management / Emergency Protocols 5	Paul Weeks, MD, PhD	change 4 hrs to 3 hrs
03.01 Patient Safety / Risk Management / Emergency Protocols 5	Salam Abdo	Common goal (should be) = patient safety (not efficiency since many time there will be delays due to safety or other issues)
03.01 Patient Safety / Risk Management / Emergency Protocols 8	Salam Abdo	This can vary by institution and setting (like office procedures, surgical centers, or large hospital with many support staff)
03.02 Code of Ethics/Scope of Practice 13	Paul Weeks, MD, PhD	poor distractors for this question
03.02 Code of Ethics/Scope of Practice 13	Martha Weeks	Distractors are inappropriate



Appendix A - MDR Item Removal

2025 - ABSA

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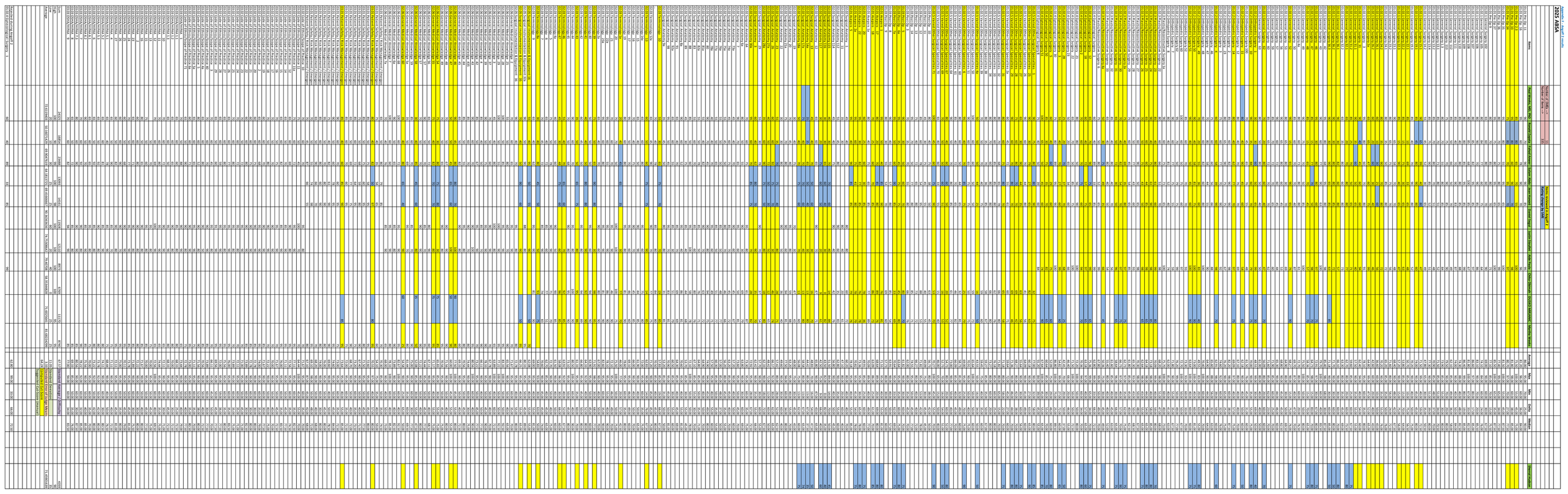
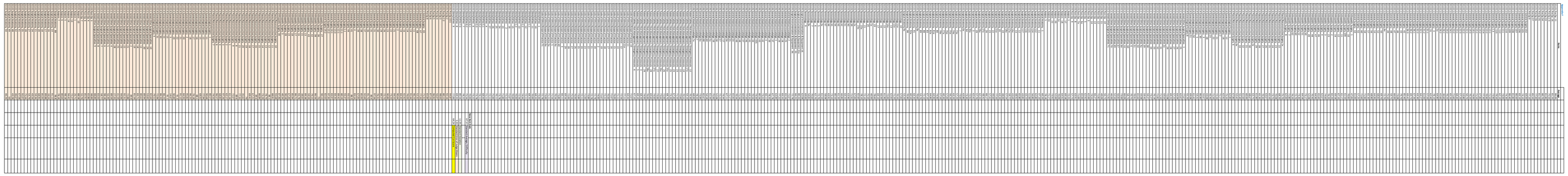
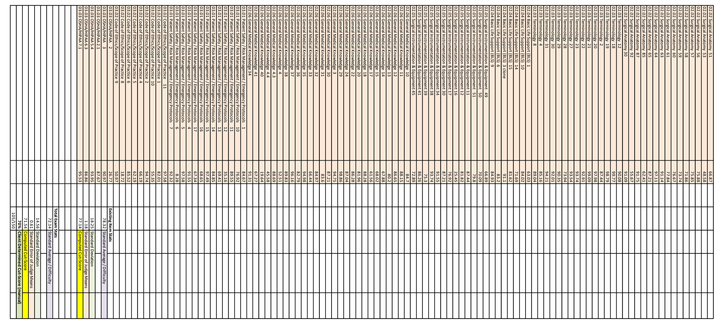


Appendix F - Exisitng Item Stats

Item	P Value	Notes	Actual	2024 Angoff Stats	Difference
01.01 Pre Op 10.5	0.948717952		94.87179518		
01.01 Pre Op 2	0.921630085		92.16300845	76.67	15.49301
01.01 Pre Op 2.2	0.801136374		80.11363745		
01.01 Pre Op 3	0.986301363		98.63013625	80.44444444	18.18569
01.01 Pre Op 4	0.560728729		56.07287288	72.88888889	-16.816
01.01 Pre Op 5	0.969178081		96.91780806	72.33333333	24.58447
01.01 Pre Op 6	0.875321329		87.53213286	74.44444444	13.08769
01.01 Pre Op 8	0.658431768		65.84317684	71.55555556	-5.71238
01.02.1 General Surgery 65	0.713131309		71.31313086		
01.02.1 General Surgery 67	0.773279369		77.32793689		
01.02.1 General Surgery 68	0.523232341		52.32323408		
01.02.1 General Surgery 11	0.962328792	use 11.1	96.23287916	70.25	25.98288
01.02.1 General Surgery 13	0.91438359		91.43835902	73.875	17.56336
01.02.1 General Surgery 14	0.760273993		76.0273993	60.875	15.1524
01.02.1 General Surgery 16	0.929223716		92.92237163	80.25	12.67237
01.02.1 General Surgery 19	0.844512224		84.45122242		
01.02.1 General Surgery 2	0.906392694		90.63926935	73.42857143	17.2107
01.02.1 General Surgery 21	0.945454538		94.54545379	65.125	29.42045
01.02.1 General Surgery 22	0.732265472		73.22654724	72.75	0.476547
01.02.1 General Surgery 23	0.908906877		90.8906877	72.75	18.14069
01.02.1 General Surgery 26	0.727272749		72.72727489	67.875	4.852275
01.02.1 General Surgery 28	0.892694056		89.2694056	72.875	16.39441
01.02.1 General Surgery 30	0.763097942		76.30979419		
01.02.1 General Surgery 31	0.975609779	use 31.1 or 31.2	97.56097794		
01.02.1 General Surgery 35	0.804040432		80.4040432		
01.02.1 General Surgery 36	0.957317054	use 36.1, 36.2, or 36.3	95.73170543		
01.02.1 General Surgery 37	0.92694062		92.69406199	80	12.69406
01.02.1 General Surgery 38	0.850505054		85.0505054	51.75	33.30051
01.02.1 General Surgery 39	0.670480549		67.04805493	65.5	1.548055
01.02.1 General Surgery 4	0.835365832		83.53658319	75.25	8.286583
01.02.1 General Surgery 41	0.863013685		86.30136847		
01.02.1 General Surgery 44	0.935222685		93.52226853	75.875	17.64727
01.02.1 General Surgery 1.1	0.933734953		93.37349534		
01.02.1 General Surgery 11.1	0.801916957		80.19169569		
01.02.1 General Surgery 12.1	0.894230783		89.4230783		
01.02.1 General Surgery 13.3	0.843450487		84.34504867		
01.02.1 General Surgery 14.1	0.839743614		83.97436142		
01.02.1 General Surgery 15.2	0.873493969		87.34939694		
01.02.1 General Surgery 19.2	0.826347291		82.63472915		
01.02.2 Orthopedic Surgery 27	0.901345313		90.13453126	76	14.13453
01.02.2 Orthopedic Surgery 36	0.75		75	63	12
01.02.2 Orthopedic Surgery 38	0.865603626		86.56036258	83.125	3.435363
01.02.2 Orthopedic Surgery 42	0.791498005		79.14980054	82	-2.8502
01.02.2 Orthopedic Surgery 43	0.595890403		59.58904028	75.125	-15.536
01.02.2 Orthopedic Surgery 13	0.893776834		89.3776834	72.75	16.62768
01.02.2 Orthopedic Surgery 15	0.386509627		38.65096271	67.625	-28.974
01.02.2 Orthopedic Surgery 16	0.937834918		93.78349185	73.625	20.15849
01.02.2 Orthopedic Surgery 17	0.867095411		86.70954108	68.25	18.45954
01.02.2 Orthopedic Surgery 18	0.859442055		85.94420552	65.25	20.69421
01.02.2 Orthopedic Surgery 19	0.674892724		67.48927236	69.625	-2.13573
01.02.2 Orthopedic Surgery 28	0.905781567		90.57815671		
01.02.2 Orthopedic Surgery 3	0.403433472		40.34334719	56	-15.6567
01.02.2 Orthopedic Surgery 30	0.874598086		87.45980859		
01.02.3 Plastic/Reconstructive Surgery 10	0.936763108		93.67631078	73.14285714	20.53345
01.02.3 Plastic/Reconstructive Surgery 11	0.888127863		88.8127863	64	24.81279
01.02.3 Plastic/Reconstructive Surgery 12	0.861047864		86.1047864	67.42857143	18.67621
01.02.3 Plastic/Reconstructive Surgery 13	0.787878811		78.78788114	68.28571429	10.50217
01.02.3 Plastic/Reconstructive Surgery 14	0.732876718		73.2876718	58.28571429	15.00196
01.02.3 Plastic/Reconstructive Surgery 15	0.868421078		86.84210777	60.71428571	26.12782
01.02.3 Plastic/Reconstructive Surgery 16	0.8960343		89.60343003	69.14285714	20.46057
01.02.3 Plastic/Reconstructive Surgery 17	0.672064781		67.20647812	63.85714286	3.349335
01.02.3 Plastic/Reconstructive Surgery 18	0.694063902		69.40639019	60.28571429	9.120676
01.02.3 Plastic/Reconstructive Surgery 19	0.789954364		78.99543643	69.71428571	9.281151
01.02.3 Plastic/Reconstructive Surgery 20	0.356164396		35.61643958	65.28571429	-29.6693
01.02.3 Plastic/Reconstructive Surgery 21	0.773279369		77.32793689	62.85714286	14.47079
01.02.3 Plastic/Reconstructive Surgery 8	0.8960343		89.60343003	68.14285714	21.46057
01.02.3 Plastic/Reconstructive Surgery 9	0.726720631		72.67206311	64	8.672063
01.02.3 Plastic/Reconstructive Surgery 1	0.611588001		61.15880013	72.57142857	-11.4126
01.02.3 Plastic/Reconstructive Surgery 2	0.621650577		62.16505766	63.85714286	-1.69209
01.02.3 Plastic/Reconstructive Surgery 3	0.972602725		97.2602725	62.57142857	34.68884
01.02.3 Plastic/Reconstructive Surgery 4	0.688259125		68.82591248	63.85714286	4.96877
01.02.3 Plastic/Reconstructive Surgery 6	0.965665221		96.56652212	74.85714286	21.70938
01.02.3 Plastic/Reconstructive Surgery 7	0.74545455		74.54545498	63.71428571	10.83117
01.02.4 Gynecological Surgery 1	0.805667996		80.56679964		
01.02.4 Gynecological Surgery 11	0.906752408		90.67524076		
01.02.4 Gynecological Surgery 12	0.779352248		77.93522477		
01.02.4 Gynecological Surgery 15	0.680161953		68.0161953	59.71428571	8.30191
01.02.4 Gynecological Surgery 16	0.88102895		88.10289502	60.71428571	27.38861
01.02.4 Gynecological Surgery 17	0.761802554		76.18025541	67.57142857	8.608827
01.02.4 Gynecological Surgery 18	0.962526739		96.25267386	68.14285714	28.10982
01.02.4 Gynecological Surgery 2	0.9581545		95.81544995	61.28571429	34.52974
01.02.4 Gynecological Surgery 20	0.849315047		84.93150473	61.71428571	23.21722
01.02.4 Gynecological Surgery 21	0.911161721		91.11617208	71.57142857	19.54474
01.02.4 Gynecological Surgery 22	0.912955463		91.29554629	69.71428571	21.58126
01.02.4 Gynecological Surgery 29	0.90888381		90.888381	65.71428571	25.1741
01.02.4 Gynecological Surgery 5	0.146680936		14.66809362		
01.02.4 Gynecological Surgery 13	0.910958886		91.09588861		
01.02.4 Gynecological Surgery 23	0.862348199		86.23481989		
01.02.4 Gynecological Surgery 30	0.863325715		86.33257151	68.42857143	17.904
01.02.4 Gynecological Surgery 31	0.720647752		72.06477523		
01.02.4 Gynecological Surgery 4	0.79506439		79.50643897	67	12.50644
01.02.5 Varied Other Surgical Specialties 10	0.826365544		82.63665438	69.28571429	13.35094
01.02.5 Varied Other Surgical Specialties 24	0.53652966		53.65296602	70.71428571	-17.0613
01.02.5 Varied Other Surgical Specialties 30	0.899357617		89.93576169	77.85714286	12.07862
01.02.5 Varied Other Surgical Specialties 13	0.806209862		80.62098622	62.71428571	17.9067
01.02.5 Varied Other Surgical Specialties 18	0.837084651		83.7084651	67.71428571	15.99418
01.02.5 Varied Other Surgical Specialties 19	0.815909088		81.59090877	70.71428571	10.87662
01.02.5 Varied Other Surgical Specialties 2	0.898989916		89.89899158	68	21.89899
01.02.5 Varied Other Surgical Specialties 21	0.728831708		72.88317084	71.28571429	1.597457
01.02.5 Varied Other Surgical Specialties 22	0.923076928		92.30769277	72.14285714	20.16484
01.02.5 Varied Other Surgical Specialties 23	0.940639257		94.06392574	66	28.06393
01.02.5 Varied Other Surgical Specialties 25	0.415862799		41.58627987	50.28571429	-8.69943
01.02.5 Varied Other Surgical Specialties 28	0.273311883		27.33118832	43.85714286	-16.526
01.02.5 Varied Other Surgical Specialties 4	0.89592272		89.59227204	71.71428571	17.87799
01.02.5 Varied Other Surgical Specialties 5	0.564920247		56.49202466	65.28571429	-8.79369
01.02.5 Varied Other Surgical Specialties 6	0.981713635		98.17813635	71.14285714	27.03528
01.02.5 Varied Other Surgical Specialties 7	0.587699294		58.76992941	58.71428571	0.055644
01.02.5 Varied Other Surgical Specialties 8	0.830303013		83.03030133	58	25.0303
01.02.5 Varied Other Surgical Specialties 9	0.888888896		88.88888955	61.14285714	27.74603
01.03 Post Op 3	0.96888411		96.88841105	74.28571429	22.6027
01.03 Post Op 4	0.658585846		65.85858464	70	-4.14142
01.03 Post Op 6	0.859090924		85.90909243	66.42857143	19.48052
01.03 Post Op 7	0.557939887		55.7939887	71.71428571	-15.9203
02.01 Asepsis 10	0.885844767		88.58447671	78.5	10.08448
02.01 Asepsis 1	0.267123282		26.7123282	78.66666667	-51.9543
02.01 Asepsis 13	0.722672045		72.26720452	64.83333333	7.433871
02.01 Asepsis 14	0.944205999		94.42059994	81.33333333	13.08727
02.01 Asepsis 5	0.981818199		98.18181992	81.66666667	16.51515
02.01 Asepsis 6	0.806378126		80.63781261	74.83333333	5.804479
02.01 Asepsis 7	0.781818211		78.18182111	72.33333333	5.848488
02.02 Surgical Anatomy 88	0.968036532		96.80365324	68.6	28.20365
02.02 Surgical Anatomy 14	0.911229968		91.12299681	83.2	7.922997
02.02 Surgical Anatomy 16	0.165413529		16.54135287	58	-41.4586
02.02 Surgical Anatomy 17	0.898785412		89.87854123	70.4	19.47854
02.02 Surgical Anatomy 18	0.850505054		85.0505054	67	18.05051
02.02 Surgical Anatomy 20	0.689507484		68.95074844	57.2	11.75075
02.02 Surgical Anatomy 21	0.593607306		59.36073065	66.4	-7.03927
02.02 Surgical Anatomy 24	0.435622305		43.56223047	54.6	-11.0378
02.02 Surgical Anatomy 27	0.547945201		54.79452014	57.8	-3.00548
02.02 Surgical Anatomy 28	0.75555557		75.55555701	60.8	14.75556
02.02 Surgical Anatomy 35	0.920685947		92.06859469	75.4	16.66859
02.02 Surgical Anatomy 41	0.675799072		67.57990718	45.2	22.37991
02.02 Surgical Anatomy 42	0.466666669		46.66666687	58.6	-11.9333
02.02 Surgical Anatomy 48	0.432801813		43.28018129	59.5	-16.2198
02.02 Surgical Anatomy 49	0.5		50	70.6	-20.6
02.02 Surgical Anatomy 50	0.462626249		46.26262486	67.4	-21.1374
02.02 Surgical Anatomy 51	0.668686867		66.86868668	62.6	4.268687
02.02 Surgical Anatomy 53	0.485829949		48.58299494	66.6	-18.017
02.02 Surgical Anatomy 56	0.758842468		75.88424683	63.2	12.68425
02.02 Surgical Anatomy 57	0.75854212		75.85421205	65.8	10.05421
02.02 Surgical Anatomy 58	0.718623459		71.86234593	47.4	24.46235
02.02 Surgical Anatomy 59	0.737406194		73.74061942	55.2	18.54062
02.02 Surgical Anatomy 60	0.766666651		76.66666508	61.4	15.26667
02.02 Surgical Anatomy 61	0.778372586		77.83725858	55.6	22.23726
02.02 Surgical Anatomy 63	0.913636613		91.13636613	51	40.13637
02.02 Surgical Anatomy 64	0.97106111		97.10611105	71.4	25.70611
02.02 Surgical Anatomy 65	0.87214613		87.21461296	66.4	20.81461
02.02 Surgical Anatomy 85	0.624145806		62.41458058	75.2	-12.7854
02.02 Surgical Anatomy 87	0.917470515		91.74705148	69.6	22.14705
02.02 Surgical Anatomy 92	0.556801429		55.66801429	63.4	-7.73199
02.02 Surgical Anatomy 30	0.91093117		91.093117	54	37.09312
02.03 Terminology 12	0.900809705		90.08097053	66.6	23.48097
02.03 Terminology 18	0.997716904		99.77169037	69.6	30.17169
02.03 Terminology 19	0.987878799		98.78787994	71	27.78788
02.03 Terminology 2	0.874429226		87.44292259	68.6	18.84292
02.03 Terminology 20	0.979757071		97.97570705	75	22.97571
02.03 Terminology 21	0.990867555		99.08675551	73	26.08676
02.03 Terminology 22	0.929149806		92.91498065	74	18.91498
02.03 Terminology 23	0.937373757		93.73737574	69.4	24.33738
02.03 Terminology 27	0.935353518		93.53535175	70.6	22.93535
02.03 Terminology 28	0.73939395		73.93939495	65.2	8.739395
02.03 Terminology 29	0.903536975		90.35369754	63	27.3537
02.03 Terminology 30	0.920091331		92.0091331	59	33.00913
02.03 Terminology 31	0.942060113		94.2060113	64.4	29.80601
02.03 Terminology 4	0.851598203		85.15982032	66.4	18.75982
02.03 Terminology 8	0.89041096		89.04109597	61	28.0411
02.04 Basic Life Support (BLS) 1	0.630303025		63.03030252	65.2	-2.1697
02.04 Basic Life Support (BLS) 10	0.840182662		84.0182662	67.4	16.61827
02.04 Basic Life Support (BLS) 14	0.716849842		71.68949842	60.2	11.4895
02.04 Basic Life Support (BLS) 15	0.816161633		81.61616325	69.4	12.21616
02.04 Basic Life Support (BLS) 3 clone	0.91103965		91.10396504	68.4	22.70397
02.04 Basic Life Support (BLS) 6	0.831983805		83.19838047	66	17.19838
02.04 Basic Life Support (BLS) 9	0.849315047		84.93150473	66.8	18.1315
02.05 Surgical Instrumentation & Equipment 49	0.668997833		66.89497828	80.8	-13.905
02.05 Surgical Instrumentation & Equipment 50	0.70091325		70.09132504	67.4	2.691325
02.05 Surgical Instrumentation & Equipment 51	0.797979772		79.79797721	71.00	8.797977
02.05 Surgical Instrumentation & Equipment 11	0.874429226		87.44292259	70.80	16.64292
02.05 Surgical Instrumentation & Equipment 12	0.818181813		81.81818128	67.00	14.81818
02.05 Surgical Instrumentation & Equipment 16	0.25454545		25.45454502	71.80	-46.3455
02.05 Surgical Instrumentation & Equipment 17	0.769230783		76.9230783	59.00	17.92308
02.05 Surgical Instrumentation & Equipment 30	0.87214613		87.21461296	77.4	9.814613
02.05 Surgical Instrumentation & Equipment 34	0.915525138		91.55251384	86.2	5.352514
02.05 Surgical Instrumentation & Equipment 38	0.937373757		93.73737574	79.4	14.33738
02.05 Surgical Instrumentation & Equipment 39	0.753036439		75.30364394	80.2	-4.89636
02.05 Surgical Instrumentation & Equipment 41	0.862626255		86.26262546	82.4	3.862625
02.05 Surgical Instrumentation & Equipment 45	0.7289294		72.89294004	74	-1.10706
02.06 General Medical Knowledge 10	0.847031951		84.7031951	43.6	41.1032
02.06 General Medical Knowledge 11	0.881549001		88.15490007	77.4	10.7549
02.06 General Medical Knowledge 12	0.826484025		82.64840245	77.6	5.048402
02.06 General Medical Knowledge 13	0.802020192		80.20201921	59.8	20.40202
02.06 General Medical Knowledge 14	0.678839982		67.88399816	66.8	1.083998
02.06 General Medical Knowledge 15	0.680161953		68.0161953	66.4	1.616195
02.06 General Medical Knowledge 17	0.615560651		61.55606508	59.2	2.356065
02.06 General Medical Knowledge 18	0.882828295		88.28282952	63.6	24.68283
02.06 General Medical Knowledge 20	0.819634676		81.9634676	69.8	12.16347
02.06 General Medical Knowledge 22	0.862808168		86.28081679	61.2	25.08082
02.06 General Medical Knowledge 24	0.870445371		87.04453707	65.6	21.44454
02.06 General Medical Knowledge 29	0.988584459		98.85844588	81.4	17.45845
02.06 General Medical Knowledge 3	0.947488606		94.7488606	61.8	32.94886
02.06 General Medical Knowledge 30	0.87214613		87.21461296	68.2	19.01461
02.06 General Medical Knowledge 31	0.836032391		83.60323906	68.6	15.00324
02.06 General Medical Knowledge 32	0.84965831		84.96583104	76.8	8.165831
02.06 General Medical Knowledge 33	0.66438359		66.43835902	56.4	10.03836
02.06 General Medical Knowledge 35	0.949771702		94.97717023	72.8	22.17717
02.06 General Medical Knowledge 36	0.827935219		82.79352188	70	12.79352
02.06 General Medical Knowledge 37	0.961161585		96.16161585	71.4	24.76162
02.06 General Medical Knowledge 38	0.898286939		89.82869387	75.2	14.62869
02.06 General Medical Knowledge 4	0.525114179		52.51141787	63	-10.4886
02.06 General Medical Knowledge 4.3	0.886868715		88.68687153	77.6	11.08687
02.06 General Medical Knowledge 4.4	0.485829949		48.58299494	63.6	-15.017
02.06 General Medical Knowledge 40	0.196356282		19.63562816	73.6	-53.9644
02.06 General Medical Knowledge 41	0.672727287		67.27272868	75.2	-7.92727
02.06 General Medical Knowledge 34	0.913131297		91.31312966	78	13.31313
03.01 Patient Safety / Risk Management / Emergency Protocols 1	0.846730947		84.67309475	72.85714286	11.81595
03.01 Patient Safety / Risk Management / Emergency Protocols 10	0.769230783		76.9230783	79	-2.07692
03.01 Patient Safety / Risk Management / Emergency Protocols 11	0.895522416		89.55224156		
03.01 Patient Safety / Risk Management / Emergency Protocols 12	0.351598173		35.15981734	73.33333333	-38.1735
03.01 Patient Safety / Risk Management / Emergency Protocols 13	0.694063902		69.40639019	85.57142857	-16.165
03.01 Patient Safety / Risk Management / Emergency Protocols 14	0.848484874		84.84848738	84.42857143	0.419916
03.01 Patient Safety / Risk Management / Emergency Protocols 15	0.974885821		97.48858213	78.14285714	19.34572
03.01 Patient Safety / Risk Management / Emergency Protocols 16	0.686468661		68.64686608	79.71428571	-11.0674
03.01 Patient Safety / Risk Management / Emergency Protocols 17	0.673447549		67.34475493	80.28571429	-12.941
03.01 Patient Safety / Risk Management / Emergency Protocols 4	0.915525138		91.55251384	81.42857143	10.12394
03.01 Patient Safety / Risk Management / Emergency Protocols 5	0.975757599		97.57575989	84.42857143	13.14719
03.01 Patient Safety / Risk Management / Emergency Protocols 6	0.082828283		8.282828331	90.57142857	-82.2886
03.01 Patient Safety / Risk Management / Emergency Protocols 7	0.92323237		92.3232317	84.85714286	7.466089
03.02 Code of Ethics/Scope of Practice 11	0.975757599		97.57575989	83.14285714	14.4329
03.02 Code of Ethics/Scope of Practice 1	0.8201285		82.01285005	85.42857143	-3.41572
03.02 Code of Ethics/Scope of Practice 10	0.553530753		55.35307527	85.57142857	-30.2184
03.02 Code of Ethics/Scope of Practice 2	0.947368443		94.7368443	82	12.73684
03.02 Code of Ethics/Scope of Practice 4	0.661943316		66.19433165	83	-16.8057
03.02 Code of Ethics/Scope of Practice 5	0.621867895		62.18678951	90.28571429	-28.0989
03.02 Code of Ethics/Scope of Practice 6	0.855150223		85.51502228	80.14285714	5.372165
03.02 Code of Ethics/Scope of Practice 8	0.187214613		18.7214613	77.42857143	-58.7071
03.02 Code of Ethics/Scope of Practice 9	0.509656668		50.96566677	79.85714286	-28.8915
03.03 OSHA/HIPAA 2	0.267741948		26.77419484	77.85714286	-51.0829
03.03 OSHA/HIPAA 3	0.90966922		90.96692204	79.28571429	11.68121
03.03 OSHA/HIPAA 2.1	0.876712322		87.67123222		
03.03 OSHA/HIPAA 5.4	0.939490438		93.94904375		
03.03 OSHA/HIPAA 6.3	0.868589759		86.85897589		
03.03 OSHA/HIPAA 7.1	0.955271542		95.52715421		
	0.782644801		78.26448005	69.41994646	8.182453





Appendix G:
American Board of Surgical Assistants, Inc.
Modified Angoff Standard Setting Report

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Figure 2: Final Modified Angoff ratings for each judge 36

Executive Summary

The American Board of Surgical Assistants, Inc. (ABSA) engaged Caveon to conduct a Modified Angoff performance standard setting workshop to provide a recommended cut score range for the ABSA Surgical Assistant - Certified examination. The cut score range is based upon Modified Angoff predictions provided by the subject matter experts (SMEs) that participated in the Modified Angoff performance standard setting process.

This report documents the results of that meeting and suggests a performance standard cut score range for the ABSA Surgical Assistant - Certified examination. This report and the appendixes provide the data and analysis results that support the recommendations.

The Modified Angoff performance standard setting instructional meeting was held on 5 August 2025 and was facilitated by ABSA. Eleven SMEs performed both rounds at varying completion levels. The process included:

1. Review exam description and purpose of the exam
2. Overview of the test development and Modified Angoff standard setting procedure
3. Discussion of the borderline qualified candidate
4. Modified Angoff Round 1 Ratings
5. Round 1 Feedback – Deltas
6. Modified Angoff Round 2 Ratings

Round 1 ratings were done independently by the SMEs. The results were compiled and discussed once judgments were made for each of the 363 new/updated multiple choice items. The SMEs were given from 5 August – 15 September 2025 to complete this assignment.

After reviewing SME item comments, it was determined that 27 items would be removed from the item bank.

Round 2 ratings were done during a group conference call on 16 September 2025, outlying items were discussed and if the SME changed their rating it was noted in Table 5 below.

The final recommended cut score range, based on the average of the SME's total ratings, and the existing pValue ratings of existing items was 105 points out of 150 or 70% in order to pass the ABSA Surgical Assistant - Certified examination. The results can be seen on the Combined tab of Appendix F – 2025 ABSA Modified Angoff Standard Setting Results.

Recommendations

Modified Angoff predictions are often times the only viable source of data available to small programs creating multiple forms of a test. However, the test item, test performance, and Modified Angoff predictions should be evaluated using candidate data once adequate candidate data has been collected.

Caveon recommends that ABSA conduct an in-service analysis when at least 100 candidates have taken each form of the test. Depending on the findings of the analysis, it may be necessary to rebalance the forms for difficulty and time. Caveon also recommends an empirical study to validate the performance standard cut score.

Responsibility for Final Decisions

Caveon has performed this work on behalf of ABSA. The resulting performance standard cut score range and other recommendations are just that – recommendations. ABSA may accept, reject, or modify these recommendations based on their knowledge and expertise of the content as well as the purpose of the exam, the target audience and applicable stake holders.

ABSA is responsible for the final decision regarding content of the test forms and the performance standard cut score.

The Modified Angoff Procedure

The Modified Angoff procedure is a widely accepted methodology for establishing the performance standard cut score for a test. The procedure relies upon the judgment of subject-matter experts who examine the content of each test item/task and predict the proportion of minimally qualified candidates that will answer the item correctly. The sum of the predicted item difficulty values for each item averaged across the judges and items on a test form is calculated, standard deviation is applied, and then a recommended cut score is determined.

The difficulties were derived from the judgments of eleven SMEs. The SMEs are identified in Table 1. Biographical information is on file with American Board of Surgical Assistants, Inc.

Table 1: Modified Angoff Panel

Judge	Name	Credentials
1	Paul Weeks	MD, ScD/PhD, SA-C
2	Fahad Anwer	BS, SA-C
3	Salam Abdo	MD, PhD, BSN, RN, SA-C
4	Jean Guy Honore	MD, SA-C
5	Aide Paula	MD, SA-C
6	Daniel Segui	MD, IFAANS, SA-C
7	Chika Anthony Obimah	MD, SA-C
8	Justin Steullet	SA-C
9	Ronald Zapata	MD, SA-C
10	Dusko Mirjanic	BS, SA-C
11	Martha Weeks	BSN, RN

Performance Standard Cut Score Analysis

Table 2 shows the recommended performance standard cut score range as calculated for the items judged during Round 1. Table 3 provides individual ratings for each question and judge for Round 1. These are in the raw score scale, specifying the expected number of points for the minimally qualified examinee. Figure 1 shows the total Modified Angoff rating

for each judge as a percent score. Note the general consistency of the total ratings across judges and the small standard errors of the judgments.

Table 2: Round 1 Cut Score Range

66.87	Standard Average / Difficulty
11.40	Standard Deviation
3.44	Standard Error of Judge Means
63.43	Computed Cut-Score

Table 3: Round 1 Modified Angoff Ratings

Item Number	1	2	3	4	5	6	7	8	9	10	11
01.01 Pre Op 11	90	70	90	90	85			95			
01.01 Pre Op 16	95	60	78	90	70			96			
01.01 Pre Op 2.3	85	20	65	70	55			100			
01.01 Pre Op 33	95	20	60	90	65			98			
01.01 Pre Op 34	100	20	70	95	65			97			
01.01 Pre Op 35	95	80	55	95	65			100			
01.01 Pre Op 36	80	70	75	80	65			99			
01.01 Pre Op 37	95	75	80	95	65			100			
01.01 Pre Op 9	80	70	85	80	70			71			
01.02.1 General Surgery 102	65	60	80	60	70			90			
01.02.1 General Surgery 103	30	70	75	60	75			76			
01.02.1 General Surgery 104a	0	25	30	30	55			55			
01.02.1 General Surgery 105	80	84	77	60	75			64			
01.02.1 General Surgery 106	80	90	70	90	85			86			
01.02.1 General Surgery 107	80	85	82	95	85			97			
01.02.1 General Surgery 108	80	85	68	100	85			67			
01.02.1 General Surgery 109	80	80	85	95	85			99			
01.02.1 General Surgery 110	85	40	80	80	85			88			
01.02.1 General Surgery 111	85	40	70	90	83			87			

01.02.1 General Surgery 112	85	50	66	50	70			49			
01.02.1 General Surgery 113	75	75	70	90	85			90			
01.02.1 General Surgery 1.3	80	70	55	80	85			84			
01.02.1 General Surgery 13.1	85	70	71	80	51			52			
01.02.1 General Surgery 13.2	85	70	80	70	51			48			
01.02.1 General Surgery 13.4	85	75	90	85	52			51			
01.02.1 General Surgery 14.2	55	45	52	30	65			49			
01.02.1 General Surgery 15.1	90	40	99	40	70			47			
01.02.1 General Surgery 19.1	85	35	80	90	80			60			
01.02.1 General Surgery 19.3	85	40	70	90	80			52			
01.02.1 General Surgery 22.1	85	10	69	33	65			48			
01.02.1 General Surgery 22.2	85	15	75	30	65			63			
01.02.1 General Surgery 22.3	85	15	90	40	65			47			
01.02.1 General Surgery 23.1	90	65	58	70	70			48			
01.02.1 General Surgery 23.2	80	65	75	75	70			56			
01.02.1 General Surgery 24.1	80	35	50	85	80			72			
01.02.1 General Surgery 24.2	80	35	90	70	80			72			
01.02.1 General Surgery 24.3	100	40	65	95	80			68			
01.02.1 General Surgery 26.1	60	10	78	25	40			56			
01.02.1 General Surgery 26.2	60	20	72	30	40			46			
01.02.1 General Surgery 2a	65	65	47	60	75			99			
01.02.1 General Surgery 3	95	80	60	70	80			91			
01.02.1 General Surgery 31	90	30	45	60	60			94			
01.02.1 General Surgery	90	35	88	50	65			40			

31.1											
01.02.1 General Surgery 31.2	85	25	70	50	65			71			
01.02.1 General Surgery 32.1	65	20	70	80	80			77			
01.02.1 General Surgery 32.2	65	35	80	60	80			73			
01.02.1 General Surgery 36.1	90	30	82	60	80			57			
01.02.1 General Surgery 36.2	90	30	80	80	85			72			
01.02.1 General Surgery 36.3	90	30	90	65	85			63			
01.02.1 General Surgery 42	95	80	68	95	80			98			
01.02.1 General Surgery 43	90	60	77	90	63			100			
01.02.1 General Surgery 46	95	30	80	80	60			97			
01.02.1 General Surgery 47	85	15	77	60	50			98			
01.02.1 General Surgery 48	85	15	65	70	45			57			
01.02.1 General Surgery 49	90	75	70	50	85			100			
01.02.1 General Surgery 4a	80	60	73	80	80			61			
01.02.1 General Surgery 50	85	60	70	70	40			87			
01.02.1 General Surgery 52	90	15	65	90	65			76			
01.02.1 General Surgery 53	80	65	80	30	70			69			
01.02.1 General Surgery 56	90	65	80	60	45			53			
01.02.1 General Surgery 57	90	60	72	60	45			44			
01.02.1 General Surgery 59	85	70	72	70	65			60			
01.02.1 General Surgery 60	85	65	72	70	70			62			
01.02.1 General Surgery 62	70	20	80	60	40			47			
01.02.1 General Surgery 63	80	50	80	50	40			50			
01.02.2 Orthopedic Surgery 1	30	30	70	50	65			99			

01.02.2 Orthopedic Surgery 10	90	35	88	60	70			79			
01.02.2 Orthopedic Surgery 100	70	45	65	76	55			48			
01.02.2 Orthopedic Surgery 11	0	40	90	45	60			54			
01.02.2 Orthopedic Surgery 12	80	40	70	76	70			69			
01.02.2 Orthopedic Surgery 14	80	40	62	77	70			97			
01.02.2 Orthopedic Surgery 2	85	60	82	90	90			98			
01.02.2 Orthopedic Surgery 23	80	65	90	75	75			67			
01.02.2 Orthopedic Surgery 3	75	60	77	70	90			92			
01.02.2 Orthopedic Surgery 4	60	60	58	39	90			98			
01.02.2 Orthopedic Surgery 46	75	60	60	56	66			88			
01.02.2 Orthopedic Surgery 47	70	80	58	44	55			90			
01.02.2 Orthopedic Surgery 48	60	60	82	60	80			100			
01.02.2 Orthopedic Surgery 49	70	20	55	36	60			83			
01.02.2 Orthopedic Surgery 50	90	40	58	81	75			100			
01.02.2 Orthopedic Surgery 51	90	40	50	45	60			100			
01.02.2 Orthopedic Surgery 52	85	60	70	70	70			93			
01.02.2 Orthopedic Surgery 6	100	40	80	75	40			68			
01.02.2 Orthopedic Surgery 60	100	60	50	75	60			97			
01.02.2 Orthopedic Surgery 62	95	70	50	79	75			99			
01.02.2 Orthopedic Surgery 7	90	60	77	75	55			59			
01.02.2 Orthopedic Surgery 8	80	40	81	52	40			74			
01.02.3 Plastic/Reconstructive Surgery 1a	90	60	75	71	65			100			
01.02.3 Plastic/Reconstructive	80	60	66	51	70			98			

Surgery 22											
01.02.3 Plastic/Reconstructive Surgery 23	85	40	80	61	60			99			
01.02.3 Plastic/Reconstructive Surgery 24	90	40	75	61	90			98			
01.02.3 Plastic/Reconstructive Surgery 25	65	60	60	44	85			98			
01.02.3 Plastic/Reconstructive Surgery 26	70	50	75	43	50			98			
01.02.3 Plastic/Reconstructive Surgery 27	70	60	90	50	65			98			
01.02.3 Plastic/Reconstructive Surgery 28	80	50	77	43	60			93			
01.02.3 Plastic/Reconstructive Surgery 29	75	60	45	54	65			85			
01.02.3 Plastic/Reconstructive Surgery 2a	75	40	69	35	80			97			
01.02.3 Plastic/Reconstructive Surgery 30	70	40	82	54	70			97			
01.02.3 Plastic/Reconstructive Surgery 31	65	50	72	30	50			96			
01.02.3 Plastic/Reconstructive Surgery 32	85	40	80	40	70			56			
01.02.3 Plastic/Reconstructive Surgery 33	65	40	80	40	50			54			
01.02.3 Plastic/Reconstructive Surgery 4a	50	30	90	49	35			66			
01.02.3 Plastic/Reconstructive Surgery 6	75	50	80	52	65			99			
01.02.4 Gynecological Surgery 1	60	40	89	33	85			99			
01.02.4 Gynecological	65	70	90	45	65			99			

Surgery 12											
01.02.4 Gynecological Surgery 18	60	40	72	57	75			97			
01.02.4 Gynecological Surgery 2	70	60	70	40	60			94			
01.02.4 Gynecological Surgery 21	80	80	50	56	90			100			
01.02.4 Gynecological Surgery 22	65	70	50	85	75			100			
01.02.4 Gynecological Surgery 23	50	20	65	34	60			66			
01.02.4 Gynecological Surgery 28	25	20	90	37	70			68			
01.02.4 Gynecological Surgery 3	55	40	70	27	60			99			
01.02.4 Gynecological Surgery 30	75	80	89	95	90			100			
01.02.4 Gynecological Surgery 5	60	40	80	29	60			75			
01.02.4 Gynecological Surgery 50	85	30	75	35	70			82			
01.02.4 Gynecological Surgery 51	100	65	50	45	60			74			
01.02.4 Gynecological Surgery 8	75	40	50	39	60			84			
01.02.5 Varied Other Surgical Specialties 1	90	75	80	57	90				32	75	
01.02.5 Varied Other Surgical Specialties 25	90	30	79	27	65				82	63	
01.02.5 Varied Other Surgical Specialties 26	90	60	70	44	80				41	56	
01.02.5 Varied Other Surgical Specialties 27	65	30	90	44	35				63	56	
01.02.5 Varied Other Surgical Specialties 28	75	60	80	26	70				69	42	
01.02.5 Varied Other Surgical Specialties 29	90	60	70	22	70				69	46	
01.02.5 Varied Other Surgical Specialties 2a	60	45	72	55	61				60	71	
01.02.5 Varied Other Surgical Specialties 31	80	60	75	23	70				65	58	
01.02.5 Varied Other Surgical Specialties 32	80	70	68	65	78				66	80	

01.02.5 Varied Other Surgical Specialties 33	80	60	85	85	80				62	76	
01.02.5 Varied Other Surgical Specialties 34	80	70	60	80	80				66	80	
01.02.5 Varied Other Surgical Specialties 38	80	35	70	36	85				58	67	
01.02.5 Varied Other Surgical Specialties 39	70	50	70	40	75				59	60	
01.02.5 Varied Other Surgical Specialties 4a	50	50	50	44	25				16	85	
01.02.5 Varied Other Surgical Specialties 50	100	60	60	50	50				59	73	
01.02.5 Varied Other Surgical Specialties 51	90	60	65	75	75				50	75	
01.02.5 Varied Other Surgical Specialties 6	95	40	70	65	75				25	79	
01.02.5 Varied Other Surgical Specialties 60	80	60	50	44	65				32	81	
01.02.5 Varied Other Surgical Specialties 61	85	40	72	70	65				46	82	
01.02.5 Varied Other Surgical Specialties 62	100	80	65	86	80				65	81	
01.02.5 Varied Other Surgical Specialties 64	90	50	70	80	85				61	77	
01.02.5 Varied Other Surgical Specialties 65	100	60	45	65	85				77	67	
01.02.5 Varied Other Surgical Specialties 66	100	70	50	95	90				66	70	
01.02.5 Varied Other Surgical Specialties 67	80	40	60	25	50				20	52	
01.02.5 Varied Other Surgical Specialties 69	70	50	50	31	51				16	53	
01.02.5 Varied Other Surgical Specialties 70	65	40	60	33	55				15	40	
01.02.5 Varied Other Surgical Specialties 71	100	45	60	42	90				53	70	
01.03 Post Op 10	80	40	75	38	50				63	45	
01.03 Post Op 11	45	30	75	45	55				40	55	
01.03 Post Op 12	85	60	78	54	95				88	53	
01.03 Post Op 13	75	40	72	65	80				73	72	
01.03 Post Op 14	95	70	50	77	80				85	71	
01.03 Post Op 15	25	20	60	46	85				70	65	

01.03 Post Op 3	70	35	70	55	80				66	76	
01.03 Post Op 5	90	30	50	60	70				80	33	
01.03 Post Op 6a	95	35	45	75	75				45	80	
01.03 Post Op 7a	95	50	60	62	85				33	69	
01.03 Post Op 8	90	40	55	57	80				85	54	
01.03 Post Op 9	80	30	55	53	70				69	60	
02.01 Asepsis 1	95	50	40	50	90				76	81	
02.01 Asepsis 17	80	20	70	57	80				89	76	
02.01 Asepsis 18	70	25	60	70	85				86	73	
02.01 Asepsis 19	100	35	55	63	90				77	82	
02.01 Asepsis 1a	80	40	75	65	85				77	89	
02.01 Asepsis 20	60	25	60	30	85				78	36	
02.01 Asepsis 21	100	40	80	90	90				81	79	
02.01 Asepsis 22	95	30	82	77	85				76	78	
02.01 Asepsis 2a	95	60	75	41	80				78	79	
02.01 Asepsis 5	95	40	90	65	85				79	76	
02.02 Surgical Anatomy 1	45	40	70			80	80		60	72	
02.02 Surgical Anatomy 10	0	20	68				80		97	49	
02.02 Surgical Anatomy 11	35	30	70			80	40		20	61	
02.02 Surgical Anatomy 112	55	45	80			90	60		35	83	
02.02 Surgical Anatomy 114	45	40	75			90	40		42	76	
02.02 Surgical Anatomy 115	40	30	70				40		14	84	
02.02 Surgical Anatomy 116	30	30	65				30		0	82	
02.02 Surgical Anatomy 117	30	20	80				20		9	61	
02.02 Surgical Anatomy 118	30	20	65				30		10	75	
02.02 Surgical Anatomy 12	65	60	65			90	70		47	71	
02.02 Surgical Anatomy 13	45	40	70				30		16	70	
02.02 Surgical Anatomy 14a	0	40	65				30		13	80	
02.02 Surgical Anatomy 17a	0	40	70				40		13	80	
02.02 Surgical Anatomy 18a	50	40	70				70		13	84	
02.02 Surgical Anatomy	30	40	75			70	30		47	43	

19											
02.02 Surgical Anatomy 2	0	20	70				40		19	35	
02.02 Surgical Anatomy 20	70	45	40			95	80		59	88	
02.02 Surgical Anatomy 21a	75	70	80			90	60		94	81	
02.02 Surgical Anatomy 22	30	30	80			90	50		36	40	
02.02 Surgical Anatomy 23	55	35	90				80		28	71	
02.02 Surgical Anatomy 26	60	60	92				30		46	74	
02.02 Surgical Anatomy 27a	40	50	72				50		12	81	
02.02 Surgical Anatomy 28a	35	60	90				80		18	80	
02.02 Surgical Anatomy 29	55	30	78			90	70		37	54	
02.02 Surgical Anatomy 3	60	40	62				90		35	70	
02.02 Surgical Anatomy 30a	95	60	70				70		28	82	
02.02 Surgical Anatomy 64	70	60	75			95	80		61	87	
02.02 Surgical Anatomy 6a	80	50	55			90	30		69	79	
02.02 Surgical Anatomy 7	90	70	65			95	60		50	81	
02.02 Surgical Anatomy 73a	45	40	70			90	60		45	67	
02.02 Surgical Anatomy 74a	45	60	75			85	70		45	72	
02.02 Surgical Anatomy 75a	55	45	50			80	70		46	66	
02.02 Surgical Anatomy 76a	55	50	50			85	50		48	77	
02.02 Surgical Anatomy 77a	55	50	65			85	50		51	77	
02.02 Surgical Anatomy 78a	40	40	70			95	60		49	71	
02.02 Surgical Anatomy 79a	100	50	50				40		99	67	
02.02 Surgical Anatomy 80	90	70	45			90	80		94	75	
02.02 Surgical Anatomy 81a	55	40	82			90	70		63	72	

02.02 Surgical Anatomy 82a	55	50	78			85	50		76	71	
02.02 Surgical Anatomy 83	55	60	70			85	60		80	76	
02.02 Surgical Anatomy 88	85	50	60			95	100		58	78	
02.02 Surgical Anatomy 89	45	30	75			85	40		44	68	
02.02 Surgical Anatomy 8a	90	60	52			95	40		86	81	
02.02 Surgical Anatomy 91	65	40	70			85	70		69	69	
02.02 Surgical Anatomy 92a	65	60	55			85	30		51	79	
02.02 Surgical Anatomy 98	95	50	45			95	70		83	81	
02.02 Surgical Anatomy 9a	35	45	50			80	80		31	81	
02.03 Terminology 10	55	30	65				70		19	85	
02.03 Terminology 11a	70	40	78			85	80		84	80	
02.03 Terminology 12a	65	45	90			90	70		77	75	
02.03 Terminology 13	60	50	60				90		14	85	
02.03 Terminology 14a	65	60	80			95	60		75	80	
02.03 Terminology 15	65	40	50			90	90		44	85	
02.03 Terminology 16	70	40	75			90	70		45	85	
02.03 Terminology 17	95	50	70			95	60		46	60	
02.03 Terminology 19	80	60	80			95	80		81	90	
02.03 Terminology 1a	20	40	80				30		77	70	
02.03 Terminology 20	70	70	50			100	100		100	75	
02.03 Terminology 21	70	60	70			95	90		46	90	
02.03 Terminology 22a	95	60	55			95	90		86	90	
02.03 Terminology 23a	95	60	80			95	90		81	90	
02.03 Terminology 2a	65	40	70			90	60		80	90	
02.03 Terminology 39	75	50	65				30		98	95	
02.03 Terminology 40	50	50	50			95	60		94	90	
02.03 Terminology 41	40	40	50				90		92	90	
02.03 Terminology 42	60	45	50			95	80		94	89	
02.03 Terminology 43	35	50	50				80		95	86	
02.03 Terminology 44	90	60	70			95	80		100	90	
02.03 Terminology 45	70	50	68			90	80		95	90	
02.03 Terminology 46	55	40	70				70		92	85	
02.03 Terminology 47	45	30	48				60		96	85	
02.03 Terminology 4a	40	50	60			90	50		90	85	

02.03 Terminology 5	75	50	78			90	90		71	70	
02.03 Terminology 6	65	40	72			85	60		77	51	
02.03 Terminology 7	70	45	72			85	90		74	83	
02.03 Terminology 8a	30	40	80				50		93	85	
02.03 Terminology 9	65	40	62			95	90		81	90	
02.05 Surgical Instrumentation & Equipment 16	55	40	95				90				70
02.05 Surgical Instrumentation & Equipment 32a	90	50	90			88	80				95
02.05 Surgical Instrumentation & Equipment 33	0	45	85				90				95
02.05 Surgical Instrumentation & Equipment 35	70	40	50				90				95
02.05 Surgical Instrumentation & Equipment 36	90	40	70			95	80				80
02.05 Surgical Instrumentation & Equipment 40	0	50	67				90				95
02.05 Surgical Instrumentation & Equipment 41a	95	70	85				90				95
02.05 Surgical Instrumentation & Equipment 42	100	60	85				90				95
02.06 General Medical Knowledge 2	70	60	65			95	90				70
02.06 General Medical Knowledge 25	55	50	80			60	70				90
02.06 General Medical Knowledge 28	100	50	85			95	90				95
02.06 General Medical Knowledge 29	100	50	55			100	90				95
02.06 General Medical Knowledge 3	45	40	80			100	80				65
02.06 General Medical Knowledge 37	70	50	60			90	90				70
02.06 General Medical Knowledge 39	90	50	75			95	90				90
02.06 General Medical Knowledge 4	85	40	50			85	70				90
02.06 General Medical	85	50	67			95	90				70

Knowledge 42											
02.06 General Medical Knowledge 43	90	60	70			90	100				95
02.06 General Medical Knowledge 435	85	60	70			90	70				80
02.06 General Medical Knowledge 44	85	50	55			95	80				80
02.06 General Medical Knowledge 45	65	50	82			90	80				60
02.06 General Medical Knowledge 46	90	45	80				100				80
02.06 General Medical Knowledge 47	50	50	45				100				90
02.06 General Medical Knowledge 48	70	50	67			90	90				90
02.06 General Medical Knowledge 49	70	50	65			90	80				95
02.06 General Medical Knowledge 5	95	50	55				90				95
02.06 General Medical Knowledge 54	75	30	80				30				85
02.06 General Medical Knowledge 55	75	40	82				80				95
02.06 General Medical Knowledge 56	65	50	72			80	90				60
02.06 General Medical Knowledge 57	90	50	70			85	70				95
02.06 General Medical Knowledge 57	70	50	70			90	90				90
02.06 General Medical Knowledge 58	30	40	85				80				50
02.06 General Medical Knowledge 59	85	60	70			85	70				90
02.06 General Medical Knowledge 5a	35	50	69			95	70				80
02.06 General Medical Knowledge 6	100	60	70				80				95
02.06 General Medical Knowledge 60	35	40	80				90				25
02.06 General Medical Knowledge 66	100	40	77				80				80
02.06 General Medical Knowledge 68	100	60	72			95	90				95
02.06 General Medical Knowledge 6a	90	50	65			85	80				90
02.06 General Medical Knowledge 7	100	60	60			95	90				80

02.06 General Medical Knowledge 7a	70	40	76			85	90				65
03.01 Patient Safety / Risk Management / Emergency Protocols 12	65	50	80	79	85						70
03.01 Patient Safety / Risk Management / Emergency Protocols 17a	75	40	35	58	65						60
03.01 Patient Safety / Risk Management / Emergency Protocols 18	100	50	50	57	90						90
03.01 Patient Safety / Risk Management / Emergency Protocols 19	80	40	82	38	97						95
03.01 Patient Safety / Risk Management / Emergency Protocols 2	85	60	78	47	95						85
03.01 Patient Safety / Risk Management / Emergency Protocols 21	75	60	70	52	80						75
03.01 Patient Safety / Risk Management / Emergency Protocols 22	85	50	75	58	95						95
03.01 Patient Safety / Risk Management / Emergency Protocols 23	85	50	75	60	95						80
03.01 Patient Safety / Risk Management / Emergency Protocols 24	75	50	68	59	80						90
03.01 Patient Safety / Risk Management / Emergency Protocols 25	85	60	72	64	95						75
03.01 Patient Safety / Risk Management / Emergency Protocols 25a	65	50	69	77	75						90
03.01 Patient Safety / Risk Management /	85	60	70	60	95						75

Emergency Protocols 26											
03.01 Patient Safety / Risk Management / Emergency Protocols 26a	85	40	60	85	90						95
03.01 Patient Safety / Risk Management / Emergency Protocols 27	90	60	70	60	95						75
03.01 Patient Safety / Risk Management / Emergency Protocols 27a	90	50	60	78	95						95
03.01 Patient Safety / Risk Management / Emergency Protocols 28	75	40	82	61	90						90
03.01 Patient Safety / Risk Management / Emergency Protocols 28a	95	50	70	80	90						80
03.01 Patient Safety / Risk Management / Emergency Protocols 29	85	60	80	60	90						80
03.01 Patient Safety / Risk Management / Emergency Protocols 3	65	50	90	66	70						70
03.01 Patient Safety / Risk Management / Emergency Protocols 30	60	50	78	73	85						75
03.01 Patient Safety / Risk Management / Emergency Protocols 5	70	50	55	74	98						95
03.01 Patient Safety / Risk Management / Emergency Protocols 6	70	45	87	66	55						80
03.01 Patient Safety / Risk Management / Emergency Protocols 8	75	50	80	65	97						95
03.02 Code of Ethics/Scope of Practice 10	70	60	70			95	80				70
03.02 Code of Ethics/Scope of Practice	75	50	45			100	70				70

11											
03.02 Code of Ethics/Scope of Practice 11a	75	60	72			95	90				95
03.02 Code of Ethics/Scope of Practice 12	65	60	69			90	80				95
03.02 Code of Ethics/Scope of Practice 13	100	70	70				90				95
03.02 Code of Ethics/Scope of Practice 14	65	50	70			85	90				95
03.02 Code of Ethics/Scope of Practice 15	65	60	82			85	90				95
03.02 Code of Ethics/Scope of Practice 16	70	50	75			95	90				70
03.02 Code of Ethics/Scope of Practice 17	70	50	70			90	90				70
03.02 Code of Ethics/Scope of Practice 18	70	50	80			90	90				70
03.02 Code of Ethics/Scope of Practice 19	60	60	70			90	90				85
03.02 Code of Ethics/Scope of Practice 2	65	60	68			95	90				95
03.02 Code of Ethics/Scope of Practice 20	60	60	75			90	90				85
03.02 Code of Ethics/Scope of Practice 21	60	60	75			90	90				85
03.02 Code of Ethics/Scope of Practice 22	60	60	80			90	90				85
03.02 Code of Ethics/Scope of Practice 23	70	50	72			95	90				70
03.02 Code of Ethics/Scope of Practice 24	70	60	72			95	80				70

03.02 Code of Ethics/Scope of Practice 25	70	60	80			95	80				70
03.02 Code of Ethics/Scope of Practice 26	65	60	77			95	90				95
03.02 Code of Ethics/Scope of Practice 27	65	60	80			95	80				95
03.02 Code of Ethics/Scope of Practice 28	65	60	59			95	90				95
03.02 Code of Ethics/Scope of Practice 29	65	50	60			91	90				95
03.02 Code of Ethics/Scope of Practice 3	70	60	45			95	80				70
03.02 Code of Ethics/Scope of Practice 40	70	60	70			90	90				85
03.02 Code of Ethics/Scope of Practice 4a	65	60	80			90	50				85
03.02 Code of Ethics/Scope of Practice 5	80	60	52			90	80				90
03.02 Code of Ethics/Scope of Practice 5a	65	60	65			95	90				75
03.02 Code of Ethics/Scope of Practice 6a	60	60	71			90	90				95
03.02 Code of Ethics/Scope of Practice 71	65	50	90			90	80				75
03.03 OSHA/HIPAA 1	70	50	88			90	90				65
03.03 OSHA/HIPAA 1.1	65	60	60			85	80				80
03.03 OSHA/HIPAA 1.2	65	60	65			90	80				80
03.03 OSHA/HIPAA 1.3	65	60	50			95	90				80
03.03 OSHA/HIPAA 10	70	60	72			90	90				65
03.03 OSHA/HIPAA 11	70	60	80			95	90				65
03.03 OSHA/HIPAA 12	70	60	69			100	90				65
03.03 OSHA/HIPAA 13		50	70			95	80				75
03.03 OSHA/HIPAA 15	75	50	60			95	80				85
03.03 OSHA/HIPAA 16	80	50	65			90	80				85

03.03 OSHA/HIPAA 2	60	60	80			90	80				80
03.03 OSHA/HIPAA 23	65	60	71			90	80				85
03.03 OSHA/HIPAA 24	70	50	77			95	90				85
03.03 OSHA/HIPAA 25	60	50	68			90	90				95
03.03 OSHA/HIPAA 26	60	60	90			90	70				95
03.03 OSHA/HIPAA 27	60	50	82			90	80				95
03.03 OSHA/HIPAA 4	65	50	90			85	70				75
03.03 OSHA/HIPAA 5.1	65	40	78			85	90				75
03.03 OSHA/HIPAA 5.2	65	60	81			85	90				80
03.03 OSHA/HIPAA 5.3	65	50	92			90	80				80
03.03 OSHA/HIPAA 6	65	50	92			85	80				80
03.03 OSHA/HIPAA 6.1	65	60	65			95	80				75
03.03 OSHA/HIPAA 6.2	90	50	70			85	90				85
03.03 OSHA/HIPAA 7	70	60	92			90	80				90
03.03 OSHA/HIPAA 7.3	80	60	90			90	90				85
03.03 OSHA/HIPAA 8	65	50	72			85	80				85
03.03 OSHA/HIPAA 9	70	60	82			94	90				85
Average	71.91	49.42	70.27	61.08	71.71	90.36	74.71	78.97	58.97	72.96	82.54

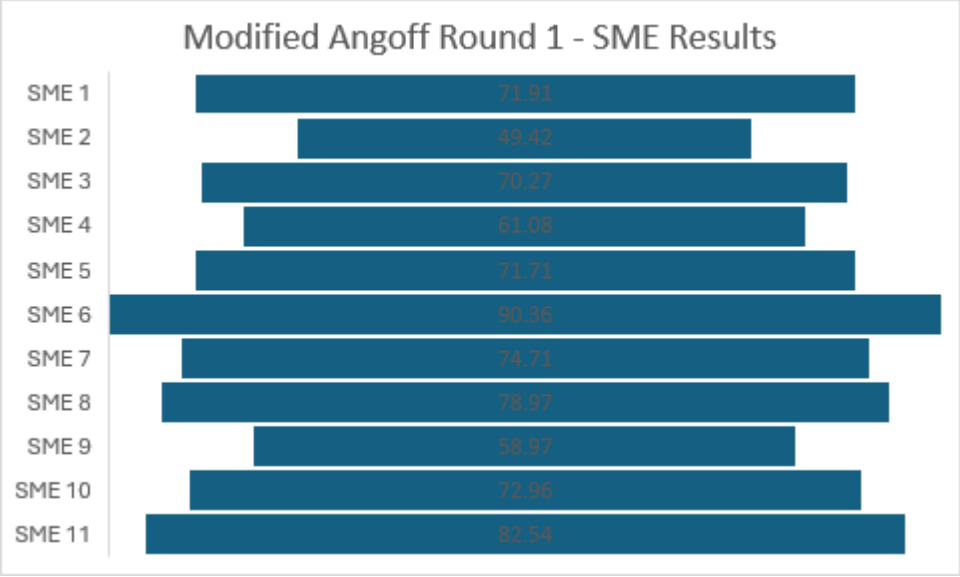


Figure 1: Round 1 Modified Angoff ratings for each judge

Table 4 shows the recommended cut score results as calculated removing aberrant results and including existing items. The recommended computed cut-score was 71.54% and the final determination was a cut-score of 70% for this exam. Table 5 provides individual ratings from each judge for all for new/updated items after removing aberrant results. These are in the raw score scale, specifying the expected number of points for the minimally qualified

examinee. Figure 2 shows the total Modified Angoff rating for each judge as a percent score.

The cut score was adjusted by removing 27 items as determined by comments during Round 1, using Round 2 scores, and including the actual pValue scores of 241 items that will be utilized on the final exam.

Table 4: Final Cut Score Results

72.14	Standard Average / Difficulty
14.56	Standard Deviation
0.61	Standard Error of Judge Means
71.54	Computed Cut-Score
70%	**Client Determined Cut-Score (manual)**
105/150	105 of 150 items correct to pass

Table 5: Final Modified Angoff Ratings

Item Number	1	2	3	4	5	6	7	8	9	10	11
01.01 Pre Op 11	90	70	90	90	85			95			
01.01 Pre Op 16	95	60	78	90	70			96			
01.01 Pre Op 2.3	85	80	65	70	55			100			
01.01 Pre Op 33	95	80	60	90	70			98			
01.01 Pre Op 34	75	80	70	95	70			97			
01.01 Pre Op 35	95	80	55	95	65			100			
01.01 Pre Op 36	80	70	75	80	65			99			
01.01 Pre Op 37	95	75	80	95	65			100			
01.01 Pre Op 9	80	70	85	80	70			71			
01.02.1 General Surgery 102	65	60	80	60	70			90			
01.02.1 General Surgery 105	80	84	77	60	75			64			
01.02.1 General Surgery 106	80	90	70	90	85			86			
01.02.1 General Surgery 107	80	85	82	95	85			97			
01.02.1 General Surgery 108	80	85	68	100	85			67			
01.02.1 General Surgery 109	80	80	85	95	85			99			
01.02.1 General Surgery 110	85	40	80	80	85			88			
01.02.1 General Surgery 111	85	40	70	90	83			87			
01.02.1 General Surgery 112	85	50	66	50	70			49			

01.02.1 General Surgery 113	75	75	70	90	85			90			
01.02.1 General Surgery 1.3	80	70	55	80	85			84			
01.02.1 General Surgery 13.1	85	70	71	80	51			52			
01.02.1 General Surgery 13.2	85	70	80	70	51			48			
01.02.1 General Surgery 13.4	85	75	90	85	52			51			
01.02.1 General Surgery 14.2	55	45	52	30	65			49			
01.02.1 General Surgery 15.1	90	65	99	40	80			47			
01.02.1 General Surgery 19.1	85	45	80	90	80			60			
01.02.1 General Surgery 19.3	85	40	70	90	80			52			
01.02.1 General Surgery 22.1	85	10	69	33	65			48			
01.02.1 General Surgery 22.2	85	15	75	30	65			63			
01.02.1 General Surgery 22.3	85	15	90	40	65			47			
01.02.1 General Surgery 23.1	90	65	58	70	70			48			
01.02.1 General Surgery 23.2	80	65	75	75	70			56			
01.02.1 General Surgery 24.1	80	35	50	85	80			72			
01.02.1 General Surgery 24.2	80	35	90	70	80			72			
01.02.1 General Surgery 26.1	60	10	30	25	60			56			
01.02.1 General Surgery 26.2	60	20	60	30	40			46			
01.02.1 General Surgery 2a	65	65	47	60	75			99			
01.02.1 General Surgery 3	95	80	60	70	80			91			
01.02.1 General Surgery 31	90	40	45	60	60			94			
01.02.1 General Surgery 31.1	90	35	60	50	65			40			
01.02.1 General Surgery 31.2	85	25	70	50	65			71			
01.02.1 General Surgery	65	20	70	80	80			77			

32.1											
01.02.1 General Surgery 32.2	65	35	80	60	80			73			
01.02.1 General Surgery 36.1	90	30	82	60	80			57			
01.02.1 General Surgery 36.2	90	30	80	80	85			72			
01.02.1 General Surgery 36.3	90	30	90	65	85			63		85	
01.02.1 General Surgery 42	95	80	68	95	80			98			
01.02.1 General Surgery 43	90	60	77	90	63			100			
01.02.1 General Surgery 46	95	30	80	80	60			97		75	
01.02.1 General Surgery 47	85	15	77	70	50			98		70	
01.02.1 General Surgery 48	85	15	65	70	45			57		70	
01.02.1 General Surgery 49	90	75	70	50	85			100			
01.02.1 General Surgery 4a	80	60	73	80	80			61			
01.02.1 General Surgery 50	85	60	70	70	40			87			
01.02.1 General Surgery 52	90	15	65	90	65			76		90	
01.02.1 General Surgery 53	80	65	80	30	70			69			
01.02.1 General Surgery 56	90	65	80	60	45			53			
01.02.1 General Surgery 57	90	60	72	60	45			44			
01.02.1 General Surgery 59	85	70	72	70	65			60			
01.02.1 General Surgery 60	85	65	72	70	70			62			
01.02.1 General Surgery 62	70	20	80	60	40			47		70	
01.02.1 General Surgery 63	80	50	80	50	40			50			
01.02.2 Orthopedic Surgery 1	30	30	60	50	65			99		30	
01.02.2 Orthopedic Surgery 10	90	35	88	60	70			79		75	
01.02.2 Orthopedic Surgery 100	70	45	65	76	55			48			

01.02.2 Orthopedic Surgery 11	80	40	90	45	60			54		60	
01.02.2 Orthopedic Surgery 12	80	40	70	76	70			69			
01.02.2 Orthopedic Surgery 14	80	40	62	77	70			97		75	
01.02.2 Orthopedic Surgery 2	85	60	82	90	90			98			
01.02.2 Orthopedic Surgery 23	80	65	90	75	75			67			
01.02.2 Orthopedic Surgery 3	75	60	77	70	90			92			
01.02.2 Orthopedic Surgery 4	60	60	58	39	90			98		70	
01.02.2 Orthopedic Surgery 46	75	60	60	56	66			88			
01.02.2 Orthopedic Surgery 47	70	80	58	44	55			90			
01.02.2 Orthopedic Surgery 48	60	60	82	60	80			100			
01.02.2 Orthopedic Surgery 49	70	20	55	36	60			83		40	
01.02.2 Orthopedic Surgery 50	90	40	58	81	75			100		90	
01.02.2 Orthopedic Surgery 51	90	40	50	45	60			100		90	
01.02.2 Orthopedic Surgery 52	85	60	70	70	70			93			
01.02.2 Orthopedic Surgery 60	100	60	50	75	60			97			
01.02.2 Orthopedic Surgery 62	95	70	50	79	75			99			
01.02.2 Orthopedic Surgery 7	90	60	77	75	55			59			
01.02.2 Orthopedic Surgery 8	80	40	81	52	40			74			
01.02.3 Plastic/Reconstructive Surgery 1a	90	60	75	71	65			100			
01.02.3 Plastic/Reconstructive Surgery 22	80	60	66	51	70			98			
01.02.3 Plastic/Reconstructive Surgery 23	85	40	80	61	60			99		80	
01.02.3 Plastic/Reconstructive	90	40	75	61	90			98		85	

Surgery 24											
01.02.3 Plastic/Reconstructive Surgery 25	65	60	60	44	85			98		65	
01.02.3 Plastic/Reconstructive Surgery 26	70	50	75	43	50			98		65	
01.02.3 Plastic/Reconstructive Surgery 27	70	60	90	50	65			98			
01.02.3 Plastic/Reconstructive Surgery 28	80	50	77	43	60			93			
01.02.3 Plastic/Reconstructive Surgery 29	75	60	45	54	65			85			
01.02.3 Plastic/Reconstructive Surgery 2a	75	40	69	35	80			97		75	
01.02.3 Plastic/Reconstructive Surgery 30	70	40	82	54	70			97		75	
01.02.3 Plastic/Reconstructive Surgery 31	65	50	72	30	50			96		65	
01.02.3 Plastic/Reconstructive Surgery 32	85	40	80	40	70			56			
01.02.3 Plastic/Reconstructive Surgery 33	65	40	80	40	50			54			
01.02.3 Plastic/Reconstructive Surgery 4a	50	30	75	49	35			66		45	
01.02.3 Plastic/Reconstructive Surgery 6	75	50	80	52	65			99			
01.02.4 Gynecological Surgery 1	60	40	89	33	85			99			
01.02.4 Gynecological Surgery 12	65	70	90	75	65			99		65	
01.02.4 Gynecological Surgery 18	60	40	72	57	75			97		65	
01.02.4 Gynecological Surgery 2	70	60	70	75	60			94		70	
01.02.4 Gynecological	80	80	50	56	90			100			

Surgery 21											
01.02.4 Gynecological Surgery 22	65	70	50	85	75			100			
01.02.4 Gynecological Surgery 23	50	20	65	34	60			66			
01.02.4 Gynecological Surgery 28	25	20	70	37	70			68		25	
01.02.4 Gynecological Surgery 3	55	40	70	27	60			99		60	
01.02.4 Gynecological Surgery 30	75	80	89	95	90			100			
01.02.4 Gynecological Surgery 5	60	40	60	29	60			75		60	
01.02.4 Gynecological Surgery 50	85	30	75	35	70			82		65	
01.02.4 Gynecological Surgery 51	100	65	50	45	60			74		90	
01.02.4 Gynecological Surgery 8	75	40	50	39	60			84			
01.02.5 Varied Other Surgical Specialties 1	90	75	80	80	90				32	75	
01.02.5 Varied Other Surgical Specialties 25	90	30	79	27	65				82	63	
01.02.5 Varied Other Surgical Specialties 26	90	60	70	44	80				41	56	
01.02.5 Varied Other Surgical Specialties 27	65	30	90	44	35				63	56	
01.02.5 Varied Other Surgical Specialties 28	75	60	80	70	70				69	42	
01.02.5 Varied Other Surgical Specialties 29	90	60	70	80	70				69	46	
01.02.5 Varied Other Surgical Specialties 2a	60	45	72	55	61				60	71	
01.02.5 Varied Other Surgical Specialties 31	80	60	75	80	70				65	58	
01.02.5 Varied Other Surgical Specialties 32	80	70	68	65	78				66	80	
01.02.5 Varied Other Surgical Specialties 33	80	60	85	85	80				62	76	
01.02.5 Varied Other Surgical Specialties 34	80	70	60	80	80				66	80	
01.02.5 Varied Other Surgical Specialties 38	80	35	70	36	85				58	67	

01.02.5 Varied Other Surgical Specialties 39	70	50	70	40	75				59	60	
01.02.5 Varied Other Surgical Specialties 4a	50	50	50	44	25				16	50	
01.02.5 Varied Other Surgical Specialties 50	100	60	60	50	50				59	73	
01.02.5 Varied Other Surgical Specialties 51	90	60	65	75	75				50	75	
01.02.5 Varied Other Surgical Specialties 6	95	40	70	85	75				25	79	
01.02.5 Varied Other Surgical Specialties 60	80	60	50	44	65				32	81	
01.02.5 Varied Other Surgical Specialties 61	85	40	72	70	65				46	82	
01.02.5 Varied Other Surgical Specialties 64	90	50	70	80	85				61	77	
01.02.5 Varied Other Surgical Specialties 67	80	40	60	60	50				20	52	
01.02.5 Varied Other Surgical Specialties 69	70	50	50	60	51				16	53	
01.02.5 Varied Other Surgical Specialties 70	65	40	60	33	55				15	40	
01.02.5 Varied Other Surgical Specialties 71	100	45	60	75	90				53	70	
01.03 Post Op 10	80	40	75	38	50				63	45	
01.03 Post Op 11	45	30	75	45	55				40	55	
01.03 Post Op 12	85	60	78	54	95				88	53	
01.03 Post Op 13	75	40	72	65	80				73	72	
01.03 Post Op 14	95	70	50	77	80				85	71	
01.03 Post Op 3	70	35	70	55	80				66	76	
01.03 Post Op 5	90	30	50	60	70				80	70	
01.03 Post Op 6a	95	35	45	75	75				45	80	
01.03 Post Op 7a	95	50	60	90	85				33	69	
01.03 Post Op 8	90	40	55	57	80				85	54	
01.03 Post Op 9	80	30	55	53	70				69	60	
02.01 Asepsis 1	95	50	40	85	90				76	81	
02.01 Asepsis 17	80	20	70	85	80				89	76	
02.01 Asepsis 18	70	25	60	70	85				86	73	
02.01 Asepsis 1a	80	40	75	65	85				77	89	
02.01 Asepsis 20	60	25	60	30	85				78	36	
02.01 Asepsis 22	95	30	82	77	85				76	78	
02.01 Asepsis 2a	95	60	75	41	80				78	79	

02.01 Asepsis 5	95	40	90	85	85				79	76	
02.02 Surgical Anatomy 1	45	40	70			80	80		60	72	
02.02 Surgical Anatomy 11	35	30	70			80	40		20	61	
02.02 Surgical Anatomy 112	55	45	80			90	60		35	83	
02.02 Surgical Anatomy 114	45	40	75			90	40		42	76	
02.02 Surgical Anatomy 115	40	30	70	70	60		40		14	84	
02.02 Surgical Anatomy 116	30	30	65	60	40		30		0	82	
02.02 Surgical Anatomy 117	30	20	75	60	50		20		9	61	
02.02 Surgical Anatomy 12	65	60	65			90	70		47	71	
02.02 Surgical Anatomy 13	45	40	70	50	60		30		16	70	
02.02 Surgical Anatomy 14a	35	35	65	50	40		30		13	80	
02.02 Surgical Anatomy 17a	75	40	70	70	60		40		13	80	
02.02 Surgical Anatomy 18a	50	40	70	75	60		70		13	60	
02.02 Surgical Anatomy 19	30	40	75			70	30		47	43	
02.02 Surgical Anatomy 20	70	45	40			95	80		59	88	
02.02 Surgical Anatomy 21a	75	70	80			90	60		94	81	
02.02 Surgical Anatomy 22	30	30	80			90	50		36	40	
02.02 Surgical Anatomy 23	55	35	70	75	40		80		28	71	
02.02 Surgical Anatomy 26	60	60	92	75	70		30		46	74	
02.02 Surgical Anatomy 27a	40	50	72	50	30		50		12	65	
02.02 Surgical Anatomy 28a	35	60	90	75	50		80		18	80	
02.02 Surgical Anatomy 29	55	30	78			90	70		37	54	
02.02 Surgical Anatomy 3	60	40	62	80	70		90		35	70	
02.02 Surgical Anatomy 30a	95	60	70	85	75		70		28	82	

02.02 Surgical Anatomy 64	70	60	75			95	80		61	87	
02.02 Surgical Anatomy 6a	80	50	55			90	30		69	79	
02.02 Surgical Anatomy 7	90	70	65			95	60		50	81	
02.02 Surgical Anatomy 73a	45	40	70			90	60		45	67	
02.02 Surgical Anatomy 74a	45	60	75			85	70		45	72	
02.02 Surgical Anatomy 75a	55	45	50			80	70		46	66	
02.02 Surgical Anatomy 76a	55	50	50			85	50		48	77	
02.02 Surgical Anatomy 77a	55	50	65			85	50		51	77	
02.02 Surgical Anatomy 78a	40	40	70			95	60		49	71	
02.02 Surgical Anatomy 80	90	70	45			90	80		94	75	
02.02 Surgical Anatomy 81a	55	40	82			90	70		63	72	
02.02 Surgical Anatomy 82a	55	50	78			85	50		76	71	
02.02 Surgical Anatomy 83	55	60	70			85	60		80	76	
02.02 Surgical Anatomy 88	85	50	60			95	100		58	78	
02.02 Surgical Anatomy 89	45	30	75			85	40		44	68	
02.02 Surgical Anatomy 8a	90	60	52			95	40		86	81	
02.02 Surgical Anatomy 91	65	40	70			85	70		69	69	
02.02 Surgical Anatomy 92a	65	60	55			85	30		51	79	
02.02 Surgical Anatomy 98	95	50	45			95	70		83	81	
02.02 Surgical Anatomy 9a	35	45	50			80	80		31	81	
02.03 Terminology 10	55	30	65	75	70		70		19	85	
…	70	40	78			85	80		84	80	
02.03 Terminology 12a	65	45	90			90	70		77	75	
02.03 Terminology 13	60	50	60	75	75		90		14	85	
02.03 Terminology 14a	65	60	80			95	60		75	80	
02.03 Terminology 15	65	40	50			90	90		44	85	

02.03 Terminology 16	70	40	75			90	70		45	85	
02.03 Terminology 17	95	50	70			95	60		46	60	
02.03 Terminology 19	80	60	80			95	80		81	90	
02.03 Terminology 1a	20	40	45	65	35		30		77	70	
02.03 Terminology 20	70	70	50			100	100		100	75	
02.03 Terminology 21	70	60	70			95	90		46	90	
02.03 Terminology 22a	95	60	55			95	90		86	90	
02.03 Terminology 23a	95	60	80			95	90		81	90	
02.03 Terminology 2a	65	40	70			90	60		80	90	
02.03 Terminology 39	75	50	65	90	80		30		98	95	
02.03 Terminology 40	50	50	50			95	60		94	90	
02.03 Terminology 41	40	40	50	80	80		90		92	90	
02.03 Terminology 42	60	45	50			95	80		94	89	
02.03 Terminology 43	35	50	50	65	75		80		95	86	
02.03 Terminology 44	90	60	70			95	80		100	90	
02.03 Terminology 45	70	50	68			90	80		95	90	
02.03 Terminology 46	55	40	70	65	60		70		92	85	
02.03 Terminology 47	45	30	48	75	60		60		96	85	
02.03 Terminology 4a	40	50	60			90	50		90	85	
02.03 Terminology 5	75	50	78			90	90		71	70	
02.03 Terminology 6	65	40	72			85	60		77	51	
02.03 Terminology 7	70	45	72			85	90		74	83	
02.03 Terminology 8a	30	40	80	45	50		50		93	75	
02.03 Terminology 9	65	40	62			95	90		81	90	
02.05 Surgical Instrumentation & Equipment 16	55	40	95	50	55		90			50	70
02.05 Surgical Instrumentation & Equipment 32a	90	50	90			88	80				95
02.05 Surgical Instrumentation & Equipment 35	70	40	50	90	60		90			50	95
02.05 Surgical Instrumentation & Equipment 36	90	40	70			95	80				80
02.06 General Medical Knowledge 2	70	60	65			95	90				70
02.06 General Medical Knowledge 25	55	50	80			60	70				90
02.06 General Medical Knowledge 28	100	50	85			95	90				95
02.06 General Medical Knowledge 29	100	50	55			100	90				95

02.06 General Medical Knowledge 3	45	40	80			100	80				65
02.06 General Medical Knowledge 37	70	50	60			90	90				70
02.06 General Medical Knowledge 39	90	50	75			95	90				90
02.06 General Medical Knowledge 4	85	40	50			85	70				90
02.06 General Medical Knowledge 42	85	50	67			95	90				70
02.06 General Medical Knowledge 43	90	60	70			90	100				95
02.06 General Medical Knowledge 435	85	60	70			90	70				80
02.06 General Medical Knowledge 44	85	50	55			95	80				80
02.06 General Medical Knowledge 45	65	50	82			90	80				60
02.06 General Medical Knowledge 46	90	45	80	80	70		100			90	80
02.06 General Medical Knowledge 47	50	50	45	65	60		100			50	90
02.06 General Medical Knowledge 48	70	50	67			90	90				90
02.06 General Medical Knowledge 49	70	50	65			90	80				95
02.06 General Medical Knowledge 54	75	30	80	75	80		30			75	85
02.06 General Medical Knowledge 55	75	40	82	70	70		80			75	95
02.06 General Medical Knowledge 56	65	50	72			80	90				60
02.06 General Medical Knowledge 57	90	50	70			85	70				95
02.06 General Medical Knowledge 57	70	50	70			90	90				90
02.06 General Medical Knowledge 58	30	40	85	45	60		80			35	50
02.06 General Medical Knowledge 59	85	60	70			85	70				90
02.06 General Medical Knowledge 5a	35	50	69			95	70				80
02.06 General Medical Knowledge 60	35	40	80	65	40		90			60	25
02.06 General Medical Knowledge 68	100	60	72			95	90				95
02.06 General Medical	90	50	65			85	80				90

Knowledge 6a											
02.06 General Medical Knowledge 7	100	60	60			95	90				80
02.06 General Medical Knowledge 7a	70	40	76			85	90				65
03.01 Patient Safety / Risk Management / Emergency Protocols 12	65	50	80	79	85						70
03.01 Patient Safety / Risk Management / Emergency Protocols 17a	75	40	35	58	65						60
03.01 Patient Safety / Risk Management / Emergency Protocols 19	80	40	82	50	97					80	95
03.01 Patient Safety / Risk Management / Emergency Protocols 22	85	50	75	58	95						95
03.01 Patient Safety / Risk Management / Emergency Protocols 23	85	50	75	60	95						80
03.01 Patient Safety / Risk Management / Emergency Protocols 24	75	50	68	59	80						90
03.01 Patient Safety / Risk Management / Emergency Protocols 25	85	60	72	64	95						75
03.01 Patient Safety / Risk Management / Emergency Protocols 25a	65	50	69	77	75						90
03.01 Patient Safety / Risk Management / Emergency Protocols 26	85	60	70	60	95						75
03.01 Patient Safety / Risk Management / Emergency Protocols 26a	85	40	60	85	90					85	95
03.01 Patient Safety / Risk Management /	90	60	70	60	95						75

Emergency Protocols 27											
03.01 Patient Safety / Risk Management / Emergency Protocols 27a	90	50	60	78	95						95
03.01 Patient Safety / Risk Management / Emergency Protocols 28	75	40	82	61	90						90
03.01 Patient Safety / Risk Management / Emergency Protocols 28a	95	50	70	80	90						80
03.01 Patient Safety / Risk Management / Emergency Protocols 29	85	60	80	60	90						80
03.01 Patient Safety / Risk Management / Emergency Protocols 3	65	50	90	66	70						70
03.01 Patient Safety / Risk Management / Emergency Protocols 5	70	50	55	74	98						95
03.01 Patient Safety / Risk Management / Emergency Protocols 6	70	45	87	66	55						80
03.02 Code of Ethics/Scope of Practice 10	70	60	70			95	80				70
03.02 Code of Ethics/Scope of Practice 11	75	50	45			100	70				70
03.02 Code of Ethics/Scope of Practice 11a	75	60	72			95	90				95
03.02 Code of Ethics/Scope of Practice 12	65	60	69			90	80				95
03.02 Code of Ethics/Scope of Practice 14	65	50	70			85	90				95
03.02 Code of Ethics/Scope of Practice 15	65	60	82			85	90				95
03.02 Code of Ethics/Scope of Practice	70	50	75			95	90				70

16											
03.02 Code of Ethics/Scope of Practice 17	70	50	70			90	90				70
03.02 Code of Ethics/Scope of Practice 18	70	50	80			90	90				70
03.02 Code of Ethics/Scope of Practice 19	60	60	70			90	90				85
03.02 Code of Ethics/Scope of Practice 2	65	60	68			95	90				95
03.02 Code of Ethics/Scope of Practice 20	60	60	75			90	90				85
03.02 Code of Ethics/Scope of Practice 21	60	60	75			90	90				85
03.02 Code of Ethics/Scope of Practice 22	60	60	80			90	90				85
03.02 Code of Ethics/Scope of Practice 23	70	50	72			95	90				70
03.02 Code of Ethics/Scope of Practice 24	70	60	72			95	80				70
03.02 Code of Ethics/Scope of Practice 25	70	60	80			95	80				70
03.02 Code of Ethics/Scope of Practice 26	65	60	77			95	90				95
03.02 Code of Ethics/Scope of Practice 27	65	60	80			95	80				95
03.02 Code of Ethics/Scope of Practice 28	65	60	59			95	90				95
03.02 Code of Ethics/Scope of Practice 29	65	50	60			91	90				95
03.02 Code of Ethics/Scope of Practice 3	70	60	45			95	80				70

03.02 Code of Ethics/Scope of Practice 40	70	60	70			90	90				85
03.02 Code of Ethics/Scope of Practice 4a	65	60	80			90	50				85
03.02 Code of Ethics/Scope of Practice 5	80	60	52			90	80				90
03.02 Code of Ethics/Scope of Practice 5a	65	60	65			95	90				75
03.02 Code of Ethics/Scope of Practice 6a	60	60	71			90	90				95
03.02 Code of Ethics/Scope of Practice 71	65	50	90			90	80				75
03.03 OSHA/HIPAA 1	70	50	88			90	90				65
03.03 OSHA/HIPAA 1.1	65	60	60			85	80				80
03.03 OSHA/HIPAA 1.2	65	60	65			90	80				80
03.03 OSHA/HIPAA 1.3	65	60	50			95	90				80
03.03 OSHA/HIPAA 10	70	60	72			90	90				65
03.03 OSHA/HIPAA 11	70	60	80			95	90				65
03.03 OSHA/HIPAA 12	70	60	69			100	90				65
03.03 OSHA/HIPAA 13		50	70			95	80				75
03.03 OSHA/HIPAA 15	75	50	60			95	80				85
03.03 OSHA/HIPAA 16	80	50	65			90	80				85
03.03 OSHA/HIPAA 2	60	60	80			90	80				80
03.03 OSHA/HIPAA 23	65	60	71			90	80				85
03.03 OSHA/HIPAA 24	70	50	77			95	90				85
03.03 OSHA/HIPAA 25	60	50	68			90	90				95
03.03 OSHA/HIPAA 26	60	60	90			90	70				95
03.03 OSHA/HIPAA 27	60	50	82			90	80				95
03.03 OSHA/HIPAA 4	65	50	90			85	70				75
03.03 OSHA/HIPAA 5.1	65	40	78			85	90				75
03.03 OSHA/HIPAA 5.2	65	60	81			85	90				80
03.03 OSHA/HIPAA 5.3	65	50	92			90	80				80
03.03 OSHA/HIPAA 6	65	50	92			85	80				80
03.03 OSHA/HIPAA 6.1	65	60	65			95	80				75
03.03 OSHA/HIPAA 6.2	90	50	70			85	90				85
03.03 OSHA/HIPAA 7	70	60	92			90	80				90
03.03 OSHA/HIPAA 7.3	80	60	90			90	90				85
03.03 OSHA/HIPAA 8	65	50	72			85	80				85

03.03 OSHA/HIPAA 9	70	60	82			94	90				85
Average	72.61	50.16	69.90	64.18	69.42	90.36	74.75	79.41	58.35	71.60	81.68

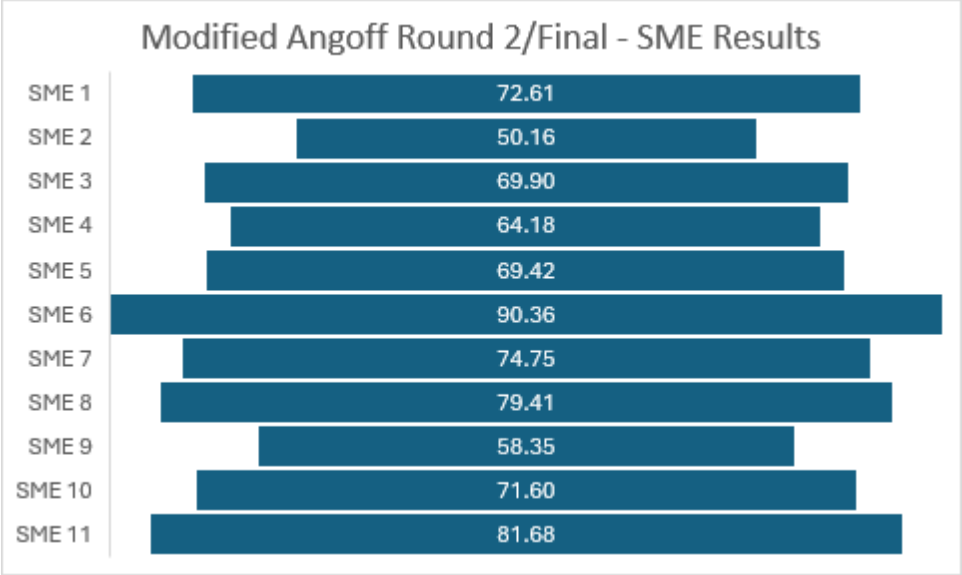
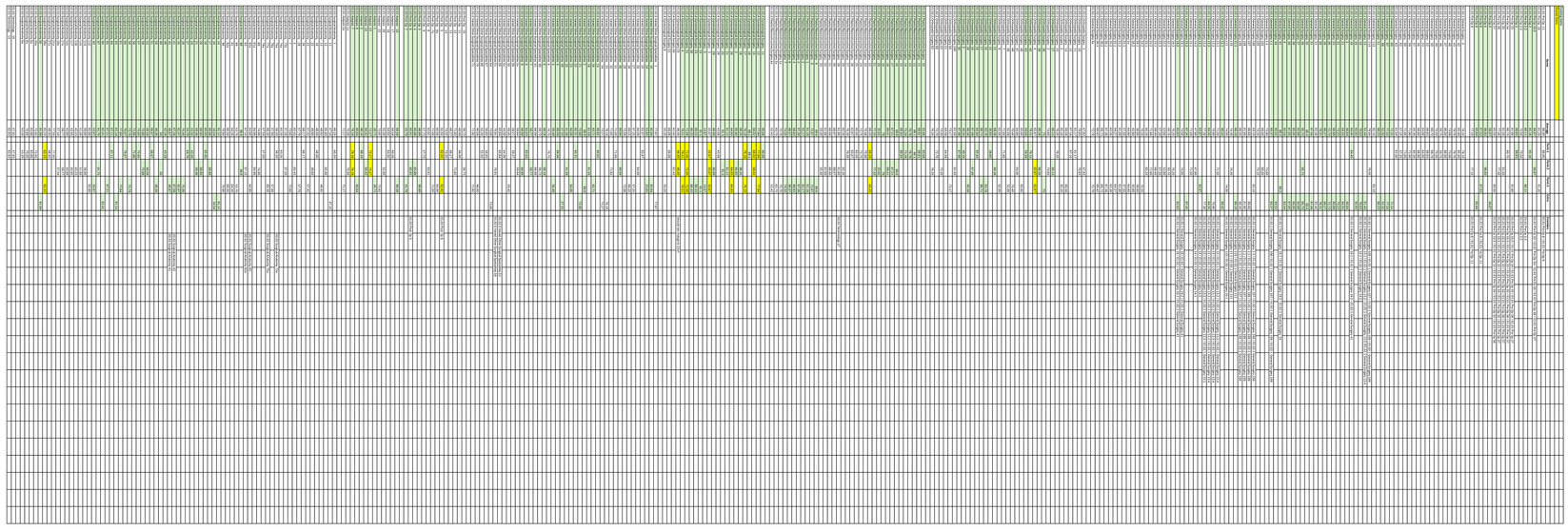


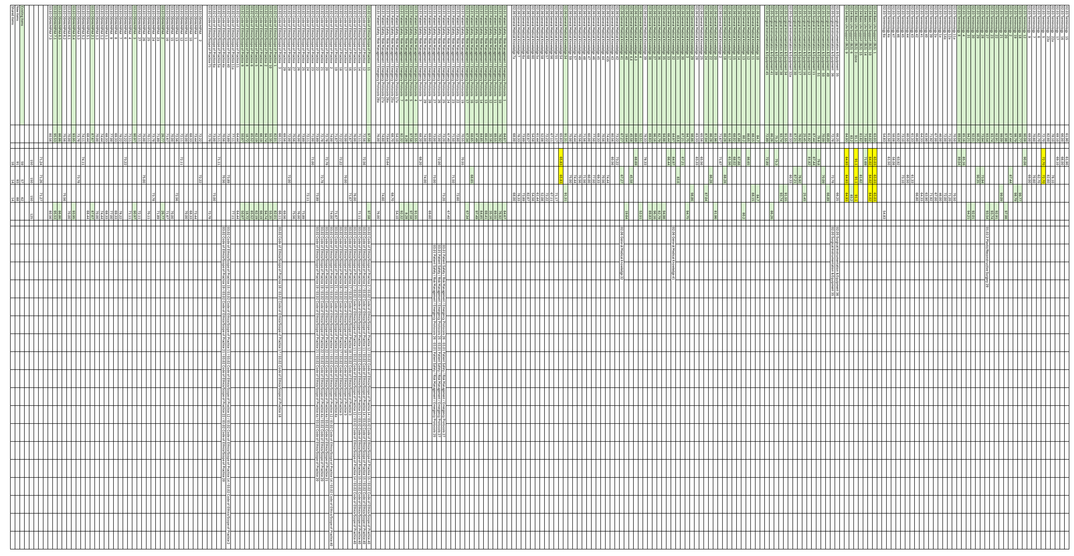
Figure 2: Final Modified Angoff ratings for each judge

Appendix H

All new items were rated by SMEs using the Modified Angoff process, responding to the following question: How many minimally qualified candidates would answer the question correctly? The Angoff ratings and the actual statistics for the existing items were then used to create three equated forms.

Form 1 = 71.24
Form 2 = 71.26
Form 3 = 71.27





Appendix H

1. Perioperative						49%			# items to present	items available			# items In Bank	# items Approved	# items On Hold	# items Rejected		Reviewers	
	1.1 Preoperative						4.00%		5	37			37	22	9	6		1/2a/3a	
	1.2 Operative						33.00%												
		1.2.1 General Surgery						11.00%	17	112			112	93	8	11		1/2a/3a	
		1.2.2 Orthopedic Surgery						8.00%	12	58			58	50	2	6		1/2a/3a	
		1.2.3 Plastic Reconstructive Surgery						8.00%	12	37			37	35	0	2		1/2a/3a	
		1.2.4 Gynecological						8.00%	11	32			32	28	0	4		1/2a/3a	
		1.2.5 Varied Other Surgical Specialities						8.00%	12	51			51	44	1	6		1/2a/3b	
	1.3 Postoperative						3.00%		5	15			15	14	0	1		1/2a/3b	
		1.3.1 Phases of wound healing																	
		1.3.2 Immediate postop complications - EKG recognition																	
2. General Surgical and Medical Knowledge						**43%**													
	2.1 Asepsis						3.00%		5	23			23	21	0	2		1/2a/3b	
	2.2 Surgical Anatomy						15.00%		22	118			118	103	0	15		1/2a/3b	
	2.3 Terminology						8.00%		12	47			47	47	0	0		1/2a/3b	
	2.4 BLS						3.00%		5	16			16	14	0	2			
	2.5 Surgical Instrumentation & Equipment						3.00%		5	42			42	34	1	7		1/2b/3c	
	2.6 General Medical Knowledge						10.00%		15	62			62	53	1	8		1/2b/3c	
3. Professional Practice Knowledge						**8%**													
	3.1 Patient Safety/Risk Management/Emergency Protocols						3.00%		4	34			34	27	1	6		1/2b/3c	
	3.2 Code of Ethics/Scope of Practice						3.00%		5	40			40	31	3	6		1/2b/3c	
	3.3 OSHA/HIPAA						2.00%		3	41			41	30	9	2		1/2b/3c	
						100.00%	**90.00%**		**150**	**765**			765	646	35	84			

1	fanwer7015@gmail.com, ronaldzapata@gmail.com, paul@absa.net	Anwer, Zapata, Weeks P.
2a	jghono@yahoo.fr, SalamAbdo@gmail.com	Honore, Abdo
2b	dsegui@comcast.net, jsteullet@me.com	Segui, Steullet
3a	draidepaula@gmail.com, ANIETIE.UFOT@YAHOO.COM, astyzzle@hotmail.com	Paula,
3b	saintlouve@gmail.com, dmirjanic@hotmail.com, riveranela851513@gmail.com	Mirianic,
3c	mjweeksrn@aol.com, mchaudhry@uspcorporate.com, sherralthudson@gmail.com	Weeks M,

Items	Average	Form 1	Enemies
01.01 Pre Op 11	86.00	86.00	01.01 Pre Op 6 / 01.01 Pre Op 9
01.01 Pre Op 2	92.16	92.16	
01.01 Pre Op 2.3	75.50	75.50	01.01 Pre Op 2.2
01.01 Pre Op 3	98.63	98.63	
01.01 Pre Op 34	80.70	80.70	01.01 Pre Op 10.5 / 01.01 Pre Op 33 / 01.01 Pre Op 35 / 01.01 Pre Op 36 / 01.01 Pre Op 37
01.02.1 General Surgery 3	78.10	78.10	
01.02.1 General Surgery 42	85.40	85.40	
01.02.1 General Surgery 43	79.70	79.70	
01.02.1 General Surgery 46	73.08	73.08	
01.02.1 General Surgery 47	66.00	66.00	
01.02.1 General Surgery 48	59.75	59.75	
01.02.1 General Surgery 49	75.50	75.50	
01.02.1 General Surgery 50	69.70	69.70	
01.02.1 General Surgery 52	68.83	68.83	
01.02.1 General Surgery 53	64.90	64.90	
01.02.1 General Surgery 56	68.80	68.80	
01.02.1 General Surgery 57	65.30	65.30	
01.02.1 General Surgery 59	71.90	71.90	
01.02.1 General Surgery 60	71.60	71.60	
01.02.1 General Surgery 62	57.25	57.25	
01.02.1 General Surgery 63	61.00	61.00	
01.02.1 General Surgery 19	84.45	84.45	01.02.1 General Surgery 19.1 / 01.02.1 General Surgery 19.2 / 01.02.1 General Surgery 41
01.02.2 Orthopedic Surgery 11	61.17	61.17	
01.02.2 Orthopedic Surgery 12	67.10	67.10	
01.02.2 Orthopedic Surgery 23	76.20	76.20	
01.02.2 Orthopedic Surgery 42	79.15	79.15	
01.02.2 Orthopedic Surgery 43	59.59	59.59	
01.02.2 Orthopedic Surgery 7	71.80	71.80	
01.02.2 Orthopedic Surgery 15	38.65	38.65	
01.02.2 Orthopedic Surgery 18	85.94	85.94	
01.02.2 Orthopedic Surgery 3	40.34	40.34	
01.02.2 Orthopedic Surgery 30	87.46	87.46	
01.02.2 Orthopedic Surgery 51	64.58	64.58	
01.02.2 Orthopedic Surgery 60	72.70	72.70	
01.02.3 Plastic/Reconstructive Surgery 10	93.68	93.68	
01.02.3 Plastic/Reconstructive Surgery 11	88.81	88.81	
01.02.3 Plastic/Reconstructive Surgery 12	86.1	86.1	
01.02.3 Plastic/Reconstructive Surgery 13	78.79	78.79	
01.02.3 Plastic/Reconstructive Surgery 14	73.29	73.29	
01.02.3 Plastic/Reconstructive Surgery 15	86.84	86.84	
01.02.3 Plastic/Reconstructive Surgery 22	68.20	68.20	
01.02.3 Plastic/Reconstructive Surgery 23	70.08	70.08	
01.02.3 Plastic/Reconstructive Surgery 24	73.75	73.75	
01.02.3 Plastic/Reconstructive Surgery 25	65.50	65.50	
01.02.3 Plastic/Reconstructive Surgery 26	63.67	63.67	
01.02.3 Plastic/Reconstructive Surgery 27	70.30	70.30	
01.02.4 Gynecological Surgery 11	90.68	90.68	
01.02.4 Gynecological Surgery 12	77.94	77.94	
01.02.4 Gynecological Surgery 15	68.02	68.02	
01.02.4 Gynecological Surgery 16	88.1	88.1	
01.02.4 Gynecological Surgery 17	76.18	76.18	
01.02.4 Gynecological Surgery 28	43.08	43.08	
01.02.4 Gynecological Surgery 3	55.67	55.67	
01.02.4 Gynecological Surgery 31	72.06	72.06	
01.02.4 Gynecological Surgery 4	79.51	79.51	
01.02.4 Gynecological Surgery 23	46.40	46.40	should we change to 23a?
01.02.4 Gynecological Surgery 51	69.08	69.08	
01.02.5 Varied Other Surgical Specialties 25	62.67	62.67	
01.02.5 Varied Other Surgical Specialties 31	71.50	71.50	
01.02.5 Varied Other Surgical Specialties 13	80.62	80.62	
01.02.5 Varied Other Surgical Specialties 22	92.31	92.31	
01.02.5 Varied Other Surgical Specialties 4	89.59	89.59	
01.02.5 Varied Other Surgical Specialties 6	70.75	70.75	
01.02.5 Varied Other Surgical Specialties 8	83.03	83.03	
01.02.5 Varied Other Surgical Specialties 38	59.27	59.27	
01.02.5 Varied Other Surgical Specialties 4a	44.08	44.08	
01.02.5 Varied Other Surgical Specialties 50	65.64	65.64	01.02.5 Varied Other Surgical Specialties 51
01.02.5 Varied Other Surgical Specialties 67	56.83	56.83	
01.02.5 Varied Other Surgical Specialties 69	52.50	52.50	
01.03 Post Op 11	49.09	49.09	
01.03 Post Op 13	66.27	66.27	
01.03 Post Op 14	74.55	74.55	
01.03 Post Op 5	62.92	62.92	01.03 Post Op 6
01.03 Post Op 9	57.73	57.73	
02.01 Asepsis 17	69.58	69.58	
02.01 Asepsis 18	64.92	64.92	
02.01 Asepsis 13	72.27	72.27	
02.01 Asepsis 5	98.18	98.18	
02.01 Asepsis 7	78.18	78.18	
02.02 Surgical Anatomy 1	60.20	60.20	
02.02 Surgical Anatomy 19	48.00	48.00	
02.02 Surgical Anatomy 26	66.17	66.17	
02.02 Surgical Anatomy 74a	63.20	63.20	
02.02 Surgical Anatomy 75a	56.20	56.20	02.02 Surgical Anatomy 73a
02.02 Surgical Anatomy 78a	57.50	57.50	
02.02 Surgical Anatomy 18	85.05	85.05	
02.02 Surgical Anatomy 24	43.56	43.56	
02.02 Surgical Anatomy 27	54.79	54.79	
02.02 Surgical Anatomy 48	43.28	43.28	
02.02 Surgical Anatomy 51	66.87	66.87	
02.02 Surgical Anatomy 57	75.85	75.85	
02.02 Surgical Anatomy 58	71.86	71.86	
02.02 Surgical Anatomy 60	76.67	76.67	
02.02 Surgical Anatomy 64	97.11	97.11	
02.02 Surgical Anatomy 21a	77.50	77.50	
02.02 Surgical Anatomy 27a	48.42	48.42	
02.02 Surgical Anatomy 28a	62.33	62.33	
02.02 Surgical Anatomy 30a	72.92	72.92	
02.02 Surgical Anatomy 6a	63.80	63.80	
02.02 Surgical Anatomy 8a	70.60	70.60	
02.02 Surgical Anatomy 9a	53.20	53.20	
02.03 Terminology 10	57.83	57.83	
02.03 Terminology 13	62.83	62.83	
02.03 Terminology 15	61.90	61.90	
02.03 Terminology 16	66.00	66.00	
02.03 Terminology 17	69.10	69.10	
02.03 Terminology 5	72.70	72.70	
02.03 Terminology 12	90.08	90.08	
02.03 Terminology 4	85.16	85.16	
02.03 Terminology 8	89.04	89.04	
02.03 Terminology 46	63.92	63.92	
02.03 Terminology 47	58.08	58.08	
02.03 Terminology 4a	61.50	61.50	
02.04 Basic Life Support (BLS) 1	63.03	63.03	
02.04 Basic Life Support (BLS) 10	84.02	84.02	
02.04 Basic Life Support (BLS) 14	71.69	71.69	
02.04 Basic Life Support (BLS) 3 clone	91.1	91.1	
02.04 Basic Life Support (BLS) 9	84.93	84.93	
02.05 Surgical Instrumentation & Equipment 51	79.8	79.8	
02.05 Surgical Instrumentation & Equipment 11	87.44	87.44	
02.05 Surgical Instrumentation & Equipment 12	81.82	81.82	
02.05 Surgical Instrumentation & Equipment 39	75.3	75.3	
02.05 Surgical Instrumentation & Equipment 45	72.89	72.89	
02.06 General Medical Knowledge 12	86.65	86.65	
02.06 General Medical Knowledge 14	67.88	67.88	
02.06 General Medical Knowledge 15	68.02	68.02	
02.06 General Medical Knowledge 17	61.56	61.56	
02.06 General Medical Knowledge 2	71.67	71.67	
02.06 General Medical Knowledge 25	65.56	65.56	
02.06 General Medical Knowledge 28	83.33	83.33	
02.06 General Medical Knowledge 30	87.21	87.21	
02.06 General Medical Knowledge 32	84.97	84.97	02.06 General Medical Knowledge 41
02.06 General Medical Knowledge 33	66.44	66.44	
02.06 General Medical Knowledge 39	78.33	78.33	
02.06 General Medical Knowledge 4.3	88.69	88.69	
02.06 General Medical Knowledge 42	73.22	73.22	
02.06 General Medical Knowledge 43	80.56	80.56	
02.06 General Medical Knowledge 54	65.83	65.83	
03.01 Patient Safety / Risk Management / Emergency Protocols 19	70.55	70.55	
03.01 Patient Safety / Risk Management / Emergency Protocols 26	72.00	72.00	03.01 Patient Safety / Risk Management / Emergency Protocols 25 - 03.01 Patient Safety / Risk Management / Emergency Protocols 27
03.01 Patient Safety / Risk Management / Emergency Protocols 3	68.20	68.20	
03.01 Patient Safety / Risk Management / Emergency Protocols 26a	73.64	73.64	
03.02 Code of Ethics/Scope of Practice 12	72.56	72.56	03.02 Code of Ethics/Scope of Practice 2 / 03.02 Code of Ethics/Scope of Practice 11 / 03.02 Code of Ethics/Scope of Practice 14 / 03.02 Code of Ethics/Scope of Practice 15 / 03.02 Code of Ethics/Scope of Practice 40
03.02 Code of Ethics/Scope of Practice 18	72.22	72.22	03.02 Code of Ethics/Scope of Practice 16 / 03.02 Code of Ethics/Scope of Practice 17 / 03.02 Code of Ethics/Scope of Practice 3
03.02 Code of Ethics/Scope of Practice 20	72.78	72.78	03.02 Code of Ethics/Scope of Practice 19 / 03.02 Code of Ethics/Scope of Practice 22 / 03.02 Code of Ethics/Scope of Practice 4a / 03.02 Code of Ethics/Scope of Practice 21
03.02 Code of Ethics/Scope of Practice 23	71.00	71.00	
03.02 Code of Ethics/Scope of Practice 5a	71.11	71.11	
03.03 OSHA/HIPAA 12	72.11	72.11	
03.03 OSHA/HIPAA 6	73.22	73.22	
03.03 OSHA/HIPAA 5.2	74.11	74.11	
	71.24	71.24	
		150	
Existing items		59	
New items			

Items	Average	Form 2	Enemies
01.01 Pre Op 10.5	94.87	94.87	01.01 Pre Op 33 / 01.01 Pre Op 34 / 01.01 Pre Op 35 / 01.01 Pre Op 36 / 01.01 Pre Op 37
01.01 Pre Op 35	81.50	81.50	01.01 Pre Op 10.5 / 01.01 Pre Op 33 / 01.01 Pre Op 34 / 01.01 Pre Op 36 / 01.01 Pre Op 37
01.01 Pre Op 36	77.40	77.40	01.01 Pre Op 10.5 / 01.01 Pre Op 33 / 01.01 Pre Op 34 / 01.01 Pre Op 35 / 01.01 Pre Op 37
01.01 Pre Op 5	96.92	96.92	
01.01 Pre Op 9	77.10	77.10	
01.02.1 General Surgery 113	79.50	79.50	01.02.1 General Surgery 106 / 01.02.1 General Surgery 107 / 01.02.1 General Surgery 108 / 01.02.1 General Surgery 109
01.02.1 General Surgery 36	95.73	95.73	
01.02.1 General Surgery 1.3	73.90	73.90	
01.02.1 General Surgery 102	69.00	69.00	
01.02.1 General Surgery 105	74.10	74.10	
01.02.1 General Surgery 110	74.30	74.30	01.02.1 General Surgery 11.1 / 01.02.1 General Surgery 111
01.02.1 General Surgery 13.1	71.50	71.50	01.02.1 General Surgery 13 / 01.02.1 General Surgery 13.2 / 01.02.1 General Surgery 13.3 / 01.02.1 General Surgery 13.4
01.02.1 General Surgery 14.2	47.80	47.80	01.02.1 General Surgery 14 / 01.02.1 General Surgery 14.1
01.02.1 General Surgery 15.1	71.50	71.50	
01.02.1 General Surgery 19.1	74.00	74.00	01.02.1 General Surgery 19 / 01.02.1 General Surgery 19.2 / 01.02.1 General Surgery 41
01.02.1 General Surgery 19.3	70.20	70.20	
01.02.1 General Surgery 22.1	50.70	50.70	
01.02.1 General Surgery 22.2	53.80	53.80	
01.02.1 General Surgery 22.3	57.20	57.20	
01.02.1 General Surgery 23.1	68.40	68.40	
01.02.1 General Surgery 23.2	71.60	71.60	
01.02.1 General Surgery 24.1	65.20	65.20	
01.02.2 Orthopedic Surgery 1	47.83	47.83	
01.02.2 Orthopedic Surgery 10	70.83	70.83	
01.02.2 Orthopedic Surgery 27	90.13	90.13	
01.02.2 Orthopedic Surgery 3	74.60	74.60	
01.02.2 Orthopedic Surgery 38	86.56	86.56	
01.02.2 Orthopedic Surgery 4	62.67	62.67	
01.02.2 Orthopedic Surgery 47	64.90	64.90	
01.02.2 Orthopedic Surgery 13	89.38	89.38	
01.02.2 Orthopedic Surgery 19	67.49	67.49	
01.02.2 Orthopedic Surgery 100	61.50	61.50	
01.02.2 Orthopedic Surgery 52	73.30	73.30	
01.02.2 Orthopedic Surgery 62	76.20	76.20	
01.02.3 Plastic/Reconstructive Surgery 16	89.6	89.6	
01.02.3 Plastic/Reconstructive Surgery 17	67.21	67.21	
01.02.3 Plastic/Reconstructive Surgery 18	69.41	69.41	
01.02.3 Plastic/Reconstructive Surgery 19	79	79	
01.02.3 Plastic/Reconstructive Surgery 20	35.62	35.62	
01.02.3 Plastic/Reconstructive Surgery 21	77.33	77.33	
01.02.3 Plastic/Reconstructive Surgery 28	65.30	65.30	
01.02.3 Plastic/Reconstructive Surgery 29	61.80	61.80	02.03 Terminology 27
01.02.3 Plastic/Reconstructive Surgery 30	68.67	68.67	
01.02.3 Plastic/Reconstructive Surgery 31	60.00	60.00	
01.02.3 Plastic/Reconstructive Surgery 32	61.60	61.60	
01.02.3 Plastic/Reconstructive Surgery 33	55.40	55.40	
01.02.4 Gynecological Surgery 15	68.02	68.02	
01.02.4 Gynecological Surgery 18	96.25	96.25	
01.02.4 Gynecological Surgery 2	95.82	95.82	
01.02.4 Gynecological Surgery 20	84.93	84.93	
01.02.4 Gynecological Surgery 21	91.12	91.12	
01.02.4 Gynecological Surgery 22	91.3	91.3	
01.02.4 Gynecological Surgery 29	90.89	90.89	
01.02.4 Gynecological Surgery 3	55.67	55.67	
01.02.4 Gynecological Surgery 31	72.06	72.06	
01.02.4 Gynecological Surgery 23	46.40	46.40	should we change to 23a?
01.02.4 Gynecological Surgery 50	61.42	61.42	
01.02.5 Varied Other Surgical Specialties 26	64.09	64.09	
01.02.5 Varied Other Surgical Specialties 30	89.94	89.94	
01.02.5 Varied Other Surgical Specialties 32	71.82	71.82	
01.02.5 Varied Other Surgical Specialties 19	81.59	81.59	
01.02.5 Varied Other Surgical Specialties 25	41.59	41.59	
01.02.5 Varied Other Surgical Specialties 6	98.18	98.18	
01.02.5 Varied Other Surgical Specialties 60	58.73	58.73	
01.02.5 Varied Other Surgical Specialties 61	66.09	66.09	
01.02.5 Varied Other Surgical Specialties 7	58.77	58.77	
01.02.5 Varied Other Surgical Specialties 9	88.89	88.89	
01.02.5 Varied Other Surgical Specialties 2a	59.64	59.64	
01.02.5 Varied Other Surgical Specialties 51	70.91	70.91	01.02.5 Varied Other Surgical Specialties 50
01.03 Post Op 10	56.73	56.73	
01.03 Post Op 12	71.82	71.82	
01.03 Post Op 8	63.91	63.91	
01.03 Post Op 4	65.86	65.86	
01.03 Post Op 6	85.91	85.91	01.03 Post Op 5
02.01 Asepsis 20	52.00	52.00	
02.01 Asepsis 13	72.27	72.27	
02.01 Asepsis 14	94.42	94.42	
02.01 Asepsis 7	78.18	78.18	
02.01 Asepsis 1a	70.09	70.09	
02.02 Surgical Anatomy 12	65.80	65.80	
02.02 Surgical Anatomy 22	49.60	49.60	
02.02 Surgical Anatomy 3	62.42	62.42	
02.02 Surgical Anatomy 73a	57.20	57.20	
02.02 Surgical Anatomy 80	74.90	74.90	
02.02 Surgical Anatomy 81a	64.90	64.90	
02.02 Surgical Anatomy 83	67.10	67.10	02.02 Surgical Anatomy 82a
02.02 Surgical Anatomy 88	96.8	96.8	
02.02 Surgical Anatomy 17	89.88	89.88	
02.02 Surgical Anatomy 20	68.95	68.95	
02.02 Surgical Anatomy 21	59.36	59.36	
02.02 Surgical Anatomy 49	50	50	
02.02 Surgical Anatomy 53	48.58	48.58	
02.02 Surgical Anatomy 56	75.88	75.88	
02.02 Surgical Anatomy 87	91.75	91.75	
02.02 Surgical Anatomy 114	56.80	56.80	
02.02 Surgical Anatomy 115	51.00	51.00	
02.02 Surgical Anatomy 116	43.23	43.23	
02.02 Surgical Anatomy 117	43.85	43.85	
02.02 Surgical Anatomy 14a	43.69	43.69	
02.02 Surgical Anatomy 17a	59.77	59.77	
02.02 Surgical Anatomy 18a	57.54	57.54	
02.03 Terminology 22a	78.10	78.10	
02.03 Terminology 23a	82.60	82.60	
02.03 Terminology 5	72.70	72.70	
02.03 Terminology 6	62.70	62.70	
02.03 Terminology 7	70.60	70.60	
02.03 Terminology 9	69.00	69.00	
02.03 Terminology 2	87.44	87.44	
02.03 Terminology 28	73.94	73.94	
02.03 Terminology 29	90.35	90.35	
02.03 Terminology 43	61.33	61.33	
02.03 Terminology 44	80.50	80.50	
02.03 Terminology 45	73.10	73.10	
02.04 Basic Life Support (BLS) 1	63.03	63.03	
02.04 Basic Life Support (BLS) 10	84.02	84.02	
02.04 Basic Life Support (BLS) 15	81.62	81.62	
02.04 Basic Life Support (BLS) 3 clone	91.1	91.1	
02.04 Basic Life Support (BLS) 9	84.93	84.93	
02.05 Surgical Instrumentation & Equipment 36	72.78	72.78	02.05 Surgical Instrumentation & Equipment 35
02.05 Surgical Instrumentation & Equipment 50	70.09	70.09	
02.05 Surgical Instrumentation & Equipment 17	76.92	76.92	
02.05 Surgical Instrumentation & Equipment 30	87.21	87.21	
02.05 Surgical Instrumentation & Equipment 32a	80.33	80.33	
02.06 General Medical Knowledge 18	88.28	88.28	
02.06 General Medical Knowledge 22	86.28	86.28	
02.06 General Medical Knowledge 31	83.6	83.6	
02.06 General Medical Knowledge 4.4	45.58	45.58	
02.06 General Medical Knowledge 41	67.27	67.27	02.06 General Medical Knowledge 32
02.06 General Medical Knowledge 435	74.44	74.44	
02.06 General Medical Knowledge 44	70.56	70.56	
02.06 General Medical Knowledge 45	69.33	69.33	
02.06 General Medical Knowledge 46	77.50	77.50	
02.06 General Medical Knowledge 47	60.00	60.00	
02.06 General Medical Knowledge 48	71.56	71.56	
02.06 General Medical Knowledge 49	70.56	70.56	
02.06 General Medical Knowledge 57	74.44	74.44	
02.06 General Medical Knowledge 59	75.00	75.00	
02.06 General Medical Knowledge 54	65.83	65.83	
03.01 Patient Safety / Risk Management / Emergency Protocols 16	68.65	68.65	
03.01 Patient Safety / Risk Management / Emergency Protocols 23	71.50	71.50	
03.01 Patient Safety / Risk Management / Emergency Protocols 27	73.00	73.00	03.01 Patient Safety / Risk Management / Emergency Protocols 26 - 03.01 Patient Safety / Risk Management / Emergency Protocols 25
03.01 Patient Safety / Risk Management / Emergency Protocols 29	74.00	74.00	
03.02 Code of Ethics/Scope of Practice 17	70.00	70.00	03.02 Code of Ethics/Scope of Practice 16 / 03.02 Code of Ethics/Scope of Practice 18 / 03.02 Code of Ethics/Scope of Practice 3
03.02 Code of Ethics/Scope of Practice 21	72.78	72.78	03.02 Code of Ethics/Scope of Practice 19 / 03.02 Code of Ethics/Scope of Practice 22 / 03.02 Code of Ethics/Scope of Practice 4a / 03.02 Code of Ethics/Scope of Practice 20
03.02 Code of Ethics/Scope of Practice 28	72.00	72.00	
03.02 Code of Ethics/Scope of Practice 40	73.89	73.89	03.02 Code of Ethics/Scope of Practice 15 / 03.02 Code of Ethics/Scope of Practice 11 / 03.02 Code of Ethics/Scope of Practice 12 / 03.02 Code of Ethics/Scope of Practice 14 / 03.02 Code of Ethics/Scope of Practice 2
03.02 Code of Ethics/Scope of Practice 4a	70.56	70.56	03.02 Code of Ethics/Scope of Practice 19 / 03.02 Code of Ethics/Scope of Practice 21 / 03.02 Code of Ethics/Scope of Practice 22 / 03.02 Code of Ethics/Scope of Practice 20
03.03 OSHA/HIPAA 2	72.22	72.22	
03.03 OSHA/HIPAA 26	75.00	75.00	
03.03 OSHA/HIPAA 5.3	73.78	73.78	
	71.26	71.26	
		150	
Existing items		57	
New items			

Items	Average	Form 3	Enemies
01.01 Pre Op 16	81.20	81.20	
01.01 Pre Op 2.2	80.11	80.11	01.01 Pre Op 2.3
01.01 Pre Op 33	81.80	81.80	01.01 Pre Op 10.5 / 01.01 Pre Op 34 / 01.01 Pre Op 35 / 01.01 Pre Op 36 / 01.01 Pre Op 37
01.01 Pre Op 37	85.50	85.50	01.01 Pre Op 10.5 / 01.01 Pre Op 33 / 01.01 Pre Op 34 / 01.01 Pre Op 35 / 01.01 Pre Op 36
01.01 Pre Op 6	87.53	87.53	01.01 Pre Op 9 / 01.01 Pre Op 11
01.02.1 General Surgery 112	62.10	62.10	
01.02.1 General Surgery 41	86.3	86.3	01.02.1 General Surgery 19.1 / 01.02.1 General Surgery 19.2 / 01.02.1 General Surgery 19
01.02.1 General Surgery 106	83.10	83.10	01.02.1 General Surgery 1.1 / 01.02.1 General Surgery 107 / 01.02.1 General Surgery 108 / 01.02.1 General Surgery 109
01.02.1 General Surgery 111	74.00	74.00	01.02.1 General Surgery 110 / 01.02.1 General Surgery 10.1
01.02.1 General Surgery 14.1	83.97	83.97	01.02.1 General Surgery 14 / 01.02.1 General Surgery 14.2
01.02.1 General Surgery 24.2	70.20	70.20	
01.02.1 General Surgery 26.1	36.60	36.60	
01.02.1 General Surgery 26.2	42.60	42.60	
01.02.1 General Surgery 2a	64.80	64.80	
01.02.1 General Surgery 31.1	57.50	57.50	
01.02.1 General Surgery 31.2	61.00	61.00	
01.02.1 General Surgery 32.1	64.27	64.27	
01.02.1 General Surgery 32.2	63.30	63.30	
01.02.1 General Surgery 36.1	67.36	67.36	
01.02.1 General Surgery 36.2	69.73	69.73	
01.02.1 General Surgery 36.3	69.42	69.42	
01.02.1 General Surgery 4a	72.70	72.70	
01.02.2 Orthopedic Surgery 14	69.58	69.58	
01.02.2 Orthopedic Surgery 2	82.20	82.20	
01.02.2 Orthopedic Surgery 36	75	75	
01.02.2 Orthopedic Surgery 4	62.67	62.67	
01.02.2 Orthopedic Surgery 46	65.60	65.60	
01.02.2 Orthopedic Surgery 48	70.40	70.40	
01.02.2 Orthopedic Surgery 49	52.08	52.08	
01.02.2 Orthopedic Surgery 8	62.00	62.00	
01.02.2 Orthopedic Surgery 16	93.78	93.78	
01.02.2 Orthopedic Surgery 17	86.71	86.71	
01.02.2 Orthopedic Surgery 28	90.58	90.58	
01.02.2 Orthopedic Surgery 50	73.17	73.17	
01.02.3 Plastic/Reconstructive Surgery 22	68.20	68.20	
01.02.3 Plastic/Reconstructive Surgery 8	89.6	89.6	
01.02.3 Plastic/Reconstructive Surgery 9	72.67	72.67	
01.02.3 Plastic/Reconstructive Surgery 1	61.16	61.16	
01.02.3 Plastic/Reconstructive Surgery 2	62.17	62.17	
01.02.3 Plastic/Reconstructive Surgery 3	97.26	97.26	
01.02.3 Plastic/Reconstructive Surgery 4	68.83	68.83	
01.02.3 Plastic/Reconstructive Surgery 6	96.57	96.57	
01.02.3 Plastic/Reconstructive Surgery 7	74.55	74.55	
01.02.3 Plastic/Reconstructive Surgery 1a	75.70	75.70	
01.02.3 Plastic/Reconstructive Surgery 2a	63.75	63.75	
01.02.3 Plastic/Reconstructive Surgery 4a	52.42	52.42	
01.02.4 Gynecological Surgery 12	77.94	77.94	
01.02.4 Gynecological Surgery 20	84.93	84.93	
01.02.4 Gynecological Surgery 3	55.67	55.67	
01.02.4 Gynecological Surgery 5	14.67	14.67	
01.02.4 Gynecological Surgery 13	91.1	91.1	
01.02.4 Gynecological Surgery 23	86.23	86.23	
01.02.4 Gynecological Surgery 30	86.33	86.33	
01.02.4 Gynecological Surgery 31	72.06	72.06	
01.02.4 Gynecological Surgery 4	79.51	79.51	
01.02.4 Gynecological Surgery 17	76.18	76.18	
01.02.4 Gynecological Surgery 8	55.20	55.20	
01.02.5 Varied Other Surgical Specialties 10	82.64	82.64	
01.02.5 Varied Other Surgical Specialties 24	53.65	53.65	
01.02.5 Varied Other Surgical Specialties 27	57.25	57.25	
01.02.5 Varied Other Surgical Specialties 28	69.25	69.25	
01.02.5 Varied Other Surgical Specialties 29	72.08	72.08	
01.02.5 Varied Other Surgical Specialties 18	83.71	83.71	
01.02.5 Varied Other Surgical Specialties 2	89.9	89.9	
01.02.5 Varied Other Surgical Specialties 23	94.06	94.06	
01.02.5 Varied Other Surgical Specialties 5	56.49	56.49	
01.02.5 Varied Other Surgical Specialties 39	59.45	59.45	
01.02.5 Varied Other Surgical Specialties 70	46.00	46.00	
01.02.5 Varied Other Surgical Specialties 71	71.92	71.92	
01.03 Post Op 5	62.92	62.92	01.03 Post Op 6
01.03 Post Op 6a	65.00	65.00	
01.03 Post Op 7a	71.00	71.00	
01.03 Post Op 3	98.89	98.89	
01.03 Post Op 7	55.79	55.79	
02.01 Asepsis 10	88.58	88.58	
02.01 Asepsis 22	73.92	73.92	
02.01 Asepsis 1	26.71	26.71	
02.01 Asepsis 6	80.64	80.64	
02.01 Asepsis 2a	71.17	71.17	
02.02 Surgical Anatomy 13	48.92	48.92	
02.02 Surgical Anatomy 23	57.42	57.42	
02.02 Surgical Anatomy 29	57.70	57.70	
02.02 Surgical Anatomy 7	73.60	73.60	
02.02 Surgical Anatomy 76a	57.00	57.00	
02.02 Surgical Anatomy 77a	60.30	60.30	02.02 Surgical Anatomy 75a
02.02 Surgical Anatomy 82a	64.80	64.80	02.02 Surgical Anatomy 83
02.02 Surgical Anatomy 89	53.70	53.70	
02.02 Surgical Anatomy 91	64.30	64.30	
02.02 Surgical Anatomy 92a	60.50	60.50	
02.02 Surgical Anatomy 98	70.90	70.90	
02.02 Surgical Anatomy 28	75.56	75.56	
02.02 Surgical Anatomy 35	92.07	92.07	
02.02 Surgical Anatomy 41	67.58	67.58	02.02 Surgical Anatomy 42
02.02 Surgical Anatomy 42	46.67	46.67	02.02 Surgical Anatomy 41
02.02 Surgical Anatomy 50	46.26	46.26	
02.02 Surgical Anatomy 59	73.74	73.74	
02.02 Surgical Anatomy 61	77.84	77.84	
02.02 Surgical Anatomy 65	87.21	87.21	
02.02 Surgical Anatomy 92	55.67	55.67	
02.02 Surgical Anatomy 112	62.80	62.80	
02.02 Surgical Anatomy 28a	62.33	62.33	
02.03 Terminology 18	99.77	99.77	
02.03 Terminology 19	98.79	98.79	
02.03 Terminology 21	99.09	99.09	
02.03 Terminology 11a	70.50	70.50	
02.03 Terminology 12a	71.20	71.20	
02.03 Terminology 14a	72.00	72.00	
02.03 Terminology 1a	46.00	46.00	
02.03 Terminology 2a	67.00	67.00	
02.03 Terminology 39	71.92	71.92	
02.03 Terminology 40	63.90	63.90	
02.03 Terminology 41	64.33	64.33	
02.03 Terminology 42	66.80	66.80	
02.04 Basic Life Support (BLS) 1	63.03	63.03	
02.04 Basic Life Support (BLS) 10	84.02	84.02	
02.04 Basic Life Support (BLS) 3 clone	91.1	91.1	
02.04 Basic Life Support (BLS) 6	83.2	83.2	
02.04 Basic Life Support (BLS) 9	84.93	84.93	
02.05 Surgical Instrumentation & Equipment 35	66.25	66.25	02.05 Surgical Instrumentation & Equipment 36
02.05 Surgical Instrumentation & Equipment 49	66.89	66.89	
02.05 Surgical Instrumentation & Equipment 16	25.45	25.45	
02.05 Surgical Instrumentation & Equipment 34	91.55	91.55	
02.05 Surgical Instrumentation & Equipment 38	93.74	93.74	
02.06 General Medical Knowledge 10	84.7	84.7	
02.06 General Medical Knowledge 11	88.15	88.15	
02.06 General Medical Knowledge 24	87.04	87.04	
02.06 General Medical Knowledge 29	98.86	98.86	
02.06 General Medical Knowledge 34	91.31	91.31	
02.06 General Medical Knowledge 55	71.17	71.17	
02.06 General Medical Knowledge 56	67.11	67.11	
02.06 General Medical Knowledge 57	72.22	72.22	
02.06 General Medical Knowledge 58	52.08	52.08	
02.06 General Medical Knowledge 5a	61.44	61.44	
02.06 General Medical Knowledge 60	54.58	54.58	
02.06 General Medical Knowledge 68	82.67	82.67	
02.06 General Medical Knowledge 6a	73.89	73.89	
02.06 General Medical Knowledge 7	78.33	78.33	
02.06 General Medical Knowledge 7a	68.00	68.00	
03.01 Patient Safety / Risk Management / Emergency Protocols 22	72.60	72.60	
03.01 Patient Safety / Risk Management / Emergency Protocols 25	73.20	73.20	03.01 Patient Safety / Risk Management / Emergency Protocols 26 - 03.01 Patient Safety / Risk Management / Emergency Protocols 27
03.01 Patient Safety / Risk Management / Emergency Protocols 25a	68.70	68.70	
03.01 Patient Safety / Risk Management / Emergency Protocols 27a	74.60	74.60	
03.02 Code of Ethics/Scope of Practice 15	76.00	76.00	03.02 Code of Ethics/Scope of Practice 2 / 03.02 Code of Ethics/Scope of Practice 11 / 03.02 Code of Ethics/Scope of Practice 12 / 03.02 Code of Ethics/Scope of Practice 14 / 03.02 Code of Ethics/Scope of Practice 40
03.02 Code of Ethics/Scope of Practice 16	71.67	71.67	03.02 Code of Ethics/Scope of Practice 17 / 03.02 Code of Ethics/Scope of Practice 18 / 03.02 Code of Ethics/Scope of Practice 3
03.02 Code of Ethics/Scope of Practice 22	73.89	73.89	03.02 Code of Ethics/Scope of Practice 19 / 03.02 Code of Ethics/Scope of Practice 21 / 03.02 Code of Ethics/Scope of Practice 4a / 03.02 Code of Ethics/Scope of Practice 20
03.02 Code of Ethics/Scope of Practice 24	72.11	72.11	
03.02 Code of Ethics/Scope of Practice 6a	73.00	73.00	
03.03 OSHA/HIPAA 13	72.56	72.56	
03.03 OSHA/HIPAA 24	73.78	73.78	
03.03 OSHA/HIPAA 6.2	75.56	75.56	
	71.27	71.27	
		150	
Existing items		62	
New items			