



Ron Smith & Associates, Inc.

www.RonSmithandAssociates.com

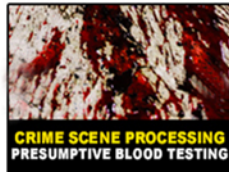
PLEASE NOTE:

- **THIS DOCUMENT IS FOR TEST DEMONSTRATION PURPOSES ONLY.**
- **REPORTS AND REPORT DATA CONTAINED IN THIS DOCUMENT ARE FOR SAMPLE PURPOSES ONLY.**

RS&A CRIME SCENE BLOODSTAIN PATTERN ANALYSIS PROFICIENCY TEST

- The (4) RS&A Crime Scene Processing Proficiency Tests are cycled on a set rotation:

4 CRIME SCENE PROCESSING PROFICIENCY TESTS



1. Test Series #600 - Crime Scene Processing – Presumptive Blood Testing - \$250.00
2. Test Series #620 - Crime Scene Processing – Latent Print Processing - \$250.00
3. Test Series #630 - Crime Scene Processing – Bloodstain Pattern Analysis - \$225.00 - \$300.00
4. Test Series #640 - Crime Scene Processing – Shooting Incident Documentation - \$300.00

The RSA Forensics Crime Scene Processing - Bloodstain Pattern Analysis Proficiency Test provides participants with practical scenarios to demonstrate their proficiency in blood pattern analysis accurately and effectively. By meeting the documentation requirements participants contribute to the thorough investigation and analysis of blood patterns, supporting the integrity and reliability of forensic evidence analysis.

- Media types available:
 - Digital Download: \$225.00
 - Hard Copy: \$250.00
 - COMBO - Digital Download + Hard Copy: \$300.00
 - COMBO - Digital DVD + Hard Copy: \$300.00
- RSA offers deep discounts on multi-year commitment and test quantities of 5 or more. **Call us today and get your custom quote pricing.**
- Participant results are submitted using our easy online PT Portal.
- Important cycle dates can be found online.

IN THIS DOCUMENT YOU WILL FIND

- Instruction Sheet.
- Images of Sample Proficiency Test.
- Manufacturer Report.
- Individual Report.
- Advanced Summary Report.

For additional information, questions, or to order RS&A Proficiency Tests contact:

RSA Forensics Testing Division

Phone: 1-866-832-6772

Email: testing@ronsmithandassociates.com

OR VISIT US ONLINE: **www.RSAFORENSICS.com**

SAMPLE



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Testing Division

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Crime Scene Bloodstain Pattern Analysis Test #XXXXXX

Instructions for Crime Scene Bloodstain Pattern Analysis Proficiency Test

Test #XXXXXX

Submission Due Date: **XXXXXX**

Scenario:

On July 4, 2026, an altercation occurred during a poker game in a basement garage. Crime Scene personnel and detectives were dispatched to the scene. Two subjects were involved. Subject A had two lacerations to his head. Subject B had an incised wound/stab to his neck area and medical records revealed a major artery was severed. Bloodstains at the scene were photographed and labeled. According to DNA results; Subject A matched patterns: F, G, H, and I. Subject B matched patterns: A, B, C, D, E, and J. Detectives requested that the bloodstain patterns in Item #1 be classified.

Classify the bloodstain pattern types.

Item #1: Two overall photos of the scene (with and without scales).
Ten photos of bloodstain patterns within the scene labeled as 1A through J1.

Determine area of origin.

Item #2: One photo of an impact pattern, not associated with Item #1.



Instructions:

The items in this test should be treated in the same manner as items typically encountered at a crime scene. A hard copy worksheet has been provided within this instruction packet for the bloodstain pattern analyst's convenience. Once the test has been completed in its entirety, the results must be entered into the PT Portal for electronic submission. Prior to distribution of this test, expected responses for both the bloodstain pattern classifications and area of origin measurements were verified by unanimous responses and consensus respectfully from pre-distribution tests. We are aware however, that some agencies allow for a conclusion of **"Bloodstain Pattern,"** when classifying stains found at crime scenes (Item #1). In designing this Proficiency Test, there was no intention to force a participant to render a conclusion which goes beyond their considered opinion. To satisfy this option, participants are allowed to enter "Bloodstain Pattern" as a response. This response will be considered as an "Inconclusive." **Due to the fact that an "Inconclusive" does not meet the assigned values, it will appear as an inconsistent response in the individual participant report, as well as, in the summary report and be incorporated as such in the statistical analysis.** It will be up to each agency to decide if the participant's "Inconclusive" response qualifies as being acceptable under their policies and procedures. Please note that leaving the "Conclusion" column blank for any of the questioned classifications will cause the results submission form to be rejected.

The following are instructions on how to fill out the "PT Portal Answer Sheet". For each of the 10 patterns (Item #1), labeled A through J, in the correct pattern field (i.e., A, B, C, etc.) select one pattern classification (e.g., swipe, cast off, etc.) from the drop-down menu. Choose your selection based on the preponderance of the stain within the square box on the image.

Three measurements will be reported for the Area of Origin. Identify the area of convergence, in 2D space, on the target (Item #2).

1. Measure the distance in from the left side of the target (starting from the outside edge of the ruler) at a position perpendicular to the center of the area of convergence. Input this value into the free text box under "Measurement from Left side of Target".
2. Measure the distance up from the bottom of the target (starting from the outside edge of the ruler) at a position perpendicular to the center of the area of convergence. Input this value into the free text box under "Measurement from Bottom of Target".
3. Using a preponderance of the individual stains' angle of impact, identify the area of origin in 3D space. Measure the distance out from the target at a position perpendicular to the center of the area of convergence to the area of origin. Input this value into the free text box under "Measurement out from Target".

After all examinations are completed, the results must be submitted via the online RS&A PT Portal. Go to the RS&A Proficiency Testing web page at <http://ptportal.ronsmythandassociates.com>.

Prior to entering your results, you will be required to answer a few general demographic survey questions. Your responses and test results will be used to generate the summary report at the completion of this testing cycle. **RS&A will not use your results for any other purpose.** The RS&A PT Portal will save your responses as you enter them, allow you to work at your own pace, and if needed, complete your submission at a later time. **Both the Demographic Survey and the Results Entry Form must be completed in their entirety in order for RS&A to accept the test results.** There is an area for comments on the results form which will be published in the summary report. Comments are not required and are not considered as results, but are very much appreciated. Please take advantage of this opportunity to tell us what you liked about the test and what you wish we would change to make the test even better in the future. This test is designed for you, and you have



the right to suggest improvements and let us know if we are meeting your needs. We look forward to, and very much appreciate your comments. If you are unable to submit your results via the RS&A PT Portal, please contact our Testing Division for alternate submission instructions.

In order for your results to be included in the final summary report for this test, responses must be received no later than the results submission due date listed on the first page of this instruction packet.

For any questions or inquiries concerning this test, please contact the Proficiency Testing Coordinator by emailing testing@ronsmithandassociates.com or by calling toll free at 866-832-6772.

SAMPLE



Demographic Survey

1. If your agency is ISO/IEC accredited, to which standard(s) are they accredited?

- ☐ 17020 ☐ 17025 ☐ Not Accredited

2. Is the individual assigned to this test civilian or sworn?

- ☐ Civilian ☐ Sworn

3. Is the individual assigned to this test I.A.I. Certified in Bloodstain Pattern Analysis or Crime Scenes?
(Check all that apply)

- ☐ No ☐ Yes, CBPA ☐ Yes, CSCSA ☐ Yes, CCSA ☐ Yes, CCSI

4. What is the primary job position of the individual assigned to this test?

- ☐ Crime Scene Analyst ☐ DNA Analyst ☐ Bloodstain Pattern Analyst
☐ Trace Analyst ☐ Medical Examiner ☐ Other (specify): _____

5. Approximately, what percentage of the above referenced individual's time is devoted to the processing Crime Scenes or performing bloodstain pattern analysis on photographs and evidence?

- ☐ Less than 25% ☐ 25% to 50% ☐ 51% to 75% ☐ 76% to 100%

6. Approximately, how many hours of formal bloodstain pattern analysis training has the above referenced individual completed?

- ☐ Less than 40 Hours ☐ 40-80 Hours ☐ 81-200 Hours
☐ 201-400 Hours ☐ 401-1000 Hours ☐ 1001+ Hours

7. How long has the above referenced individual been conducting bloodstain pattern analysis?

- ☐ Less than 1 Year ☐ 1-3 Years ☐ 4-6 Years
☐ 7-10 Years ☐ 11-20 Years ☐ 21+ Years

8. What is the highest level of education that the above referenced individual has completed?

- ☐ High School ☐ Associate's Degree ☐ Bachelor's Degree
☐ Master's Degree ☐ PhD

9. Did your agency have the original participant's conclusions reviewed by another crime scene analyst(s)?

- ☐ Yes ☐ No



Consent to Release Results to Accrediting Bodies

If your agency is accredited and would like for Ron Smith and Associates, Inc. to submit proficiency test data to your designated accreditation body, complete the form below. Results will not be submitted to an accreditation body unless the completed form is returned to RS&A by the results submission deadline listed on the first page of the instructions.

For this requirement, please submit the following information through the RS&A PT Portal. If for any reason you are unable to utilize the portal, please contact a member of our Testing Division at 1-866-832-6772 for alternate submission instructions.

By completing and submitting the applicable information below, you hereby **authorize** Ron Smith and Associates, Inc. to release the results of the above test to the appropriate accrediting body.

ANAB _____ A2LA _____ UKAS _____ OTHER (Define) _____

Certificate Number: _____

Laboratory Name: _____

Location (City/State): _____

Printed Name: _____ Title: _____

Signature: _____ Date: _____

Example Results Form

	Measurement from Left side of Target	Measurement from Bottom of Target	Measurement out from Target
*Area of Origin	11.5"	3.25"	4"

*Measurements will also be accepted in both inches and centimeters.

Angle of Impact: The angle at which the blood droplet hit the surface.

Area of Convergence (AOC): The area containing the intersections generated by lines drawn through the long axes of individual stains that indicates in two dimensions the location of the blood source.

Area of Origin (AOO): The three-dimensional location from which blood spatter originated.

Spines: Linear projections that extend from the leading edge of the parent stain.

Pattern	Classification
Item 1A	Cast-Off Pattern
Item 1B	Swipe
Item 1C	Projected Pattern
Item 1D	Satellite Stains
Item 1E	Drip Pattern
Item 1F	Transfer
Item 1G	Drip Pattern
Item 1H	Projected Pattern
Item 1I	*Bloodstain Pattern
Item 1J	Wipe

BPA Terminology: (from OSAC Registry 2017)

Backspatter Pattern – A bloodstain pattern resulting from blood drops which can be produced when a projectile creates an entrance wound.

***Bloodstain Pattern** – The collective term for the arrangement of blood drops of stains at a scene, which can be classified into types such as spatter, impact, and transfer patterns. *Considered "Inconclusive," refer to page 2.

Cast-off Pattern – A bloodstain pattern resulting from blood drops released from an object due to its motion.

Cessation Pattern – A bloodstain pattern resulting from blood drops released from an object due to its abrupt deceleration.

Drip Pattern – A bloodstain pattern resulting from a liquid that dripped into another liquid, at least one of which was blood.

Drip Stain – A bloodstain resulting from a falling drop that formed due to gravity.

Drip Trail – A bloodstain pattern resulting from the movement of a source of drip stains between two points.

Expiration Pattern – A bloodstain pattern resulting from blood forced by airflow out of the nose, mouth, or a wound.

Flow – A bloodstain resulting from the movement of a volume of blood on a surface due to gravity or movement of the target.

Forward Spatter Pattern – A bloodstain pattern resulting from blood drops which can be produced when a projectile creates an exit wound.

Impact Pattern – A bloodstain pattern resulting from an object striking liquid blood.

Pool – A bloodstain resulting from an accumulation of liquid blood on a surface.



Projected Pattern – A bloodstain pattern resulting from the ejection of blood under hydraulic pressure, typically from a breach in the circulatory system.

Satellite Stain – A smaller bloodstain that originated during the formation of the parent stain as a result of blood impacting a surface.

Saturation Stain – A bloodstain resulting from the accumulation of liquid blood in an absorbent material.

Spatter Stain – A bloodstain resulting from an airborne blood drop created when external force is applied to liquid blood.

Splash Pattern – A bloodstain pattern created from a large volume of liquid blood falling onto a surface.

Swipe – A bloodstain resulting from the transfer of blood from a blood-bearing surface onto another surface, with characteristics that indicate relative motion between the two surfaces.

Transfer Stain – A bloodstain resulting from contact between a blood-bearing surface and another surface.

Void – An absence of blood in an otherwise continuous bloodstain or bloodstain pattern.

Wipe – An altered stain resulting from an object moving through a preexisting wet bloodstain.



Results Entry Form

Pattern	Classification
Item 1A	
Item 1B	
Item 1C	
Item 1D	
Item 1E	
Item 1F	
Item 1G	
Item 1H	
Item 1I	
Item 1J	

	Measurement from Left side of Target	Measurement from Bottom of Target	Measurement out from Target
Area of Origin Pattern 1			

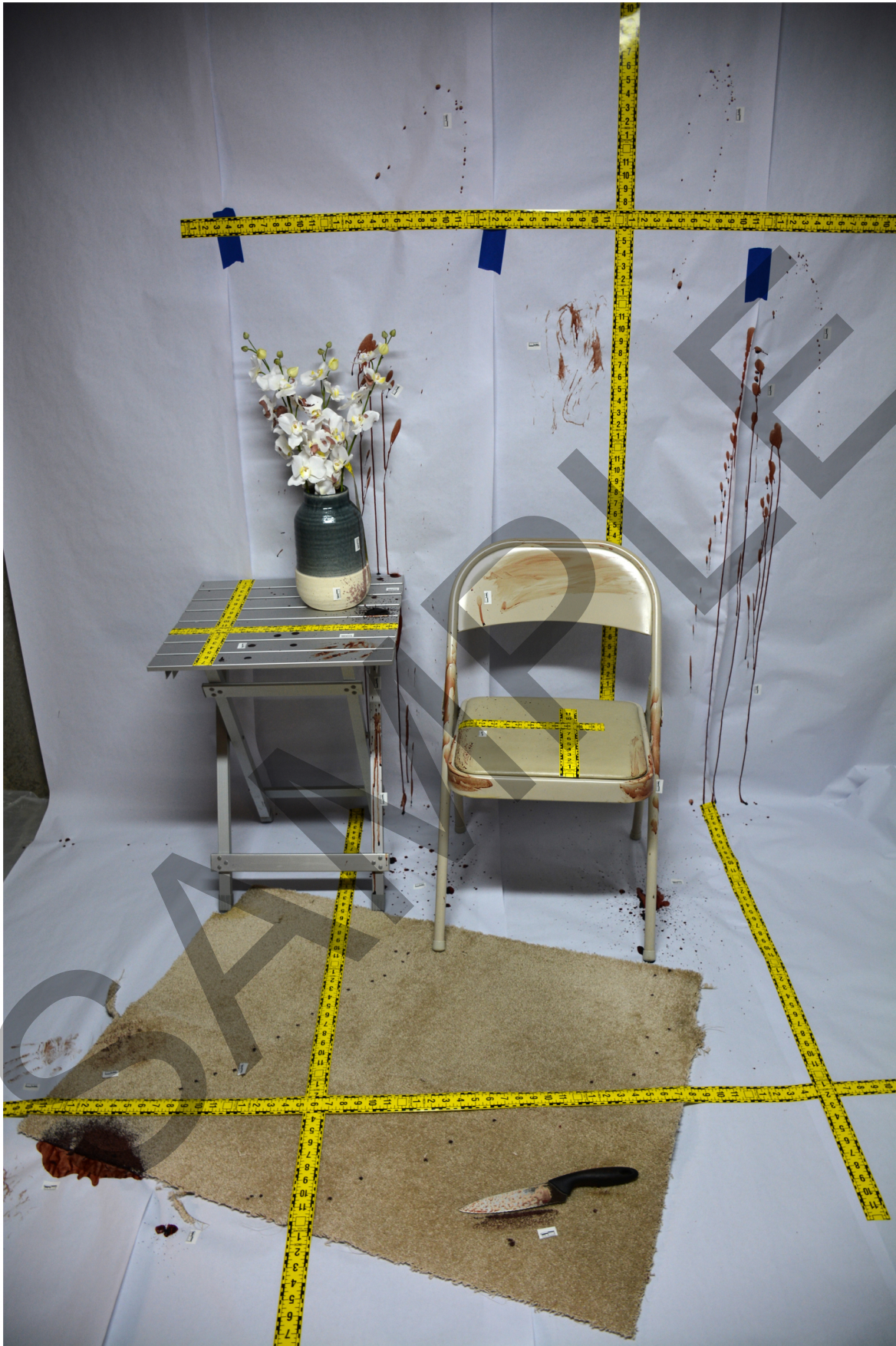
Comments: _____

Impact Pattern
Bloodstain Pattern Analysis
Proficiency Test



SAMPLE

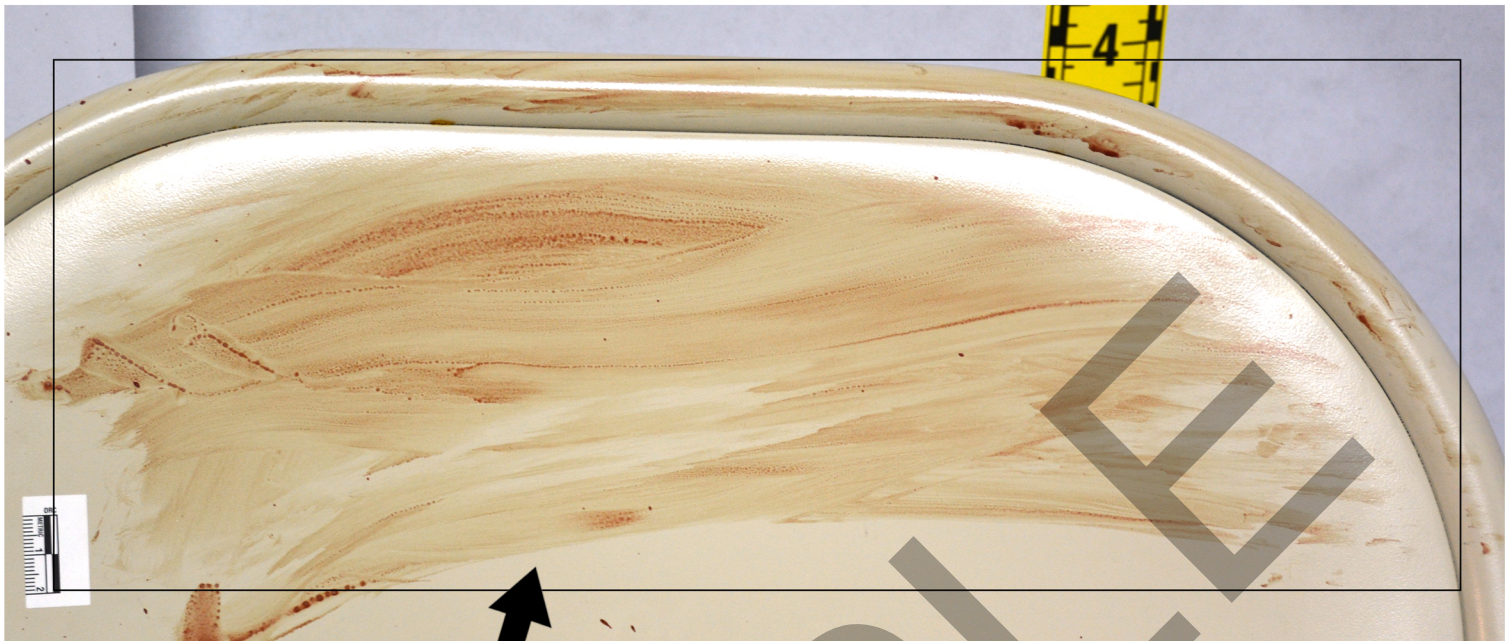




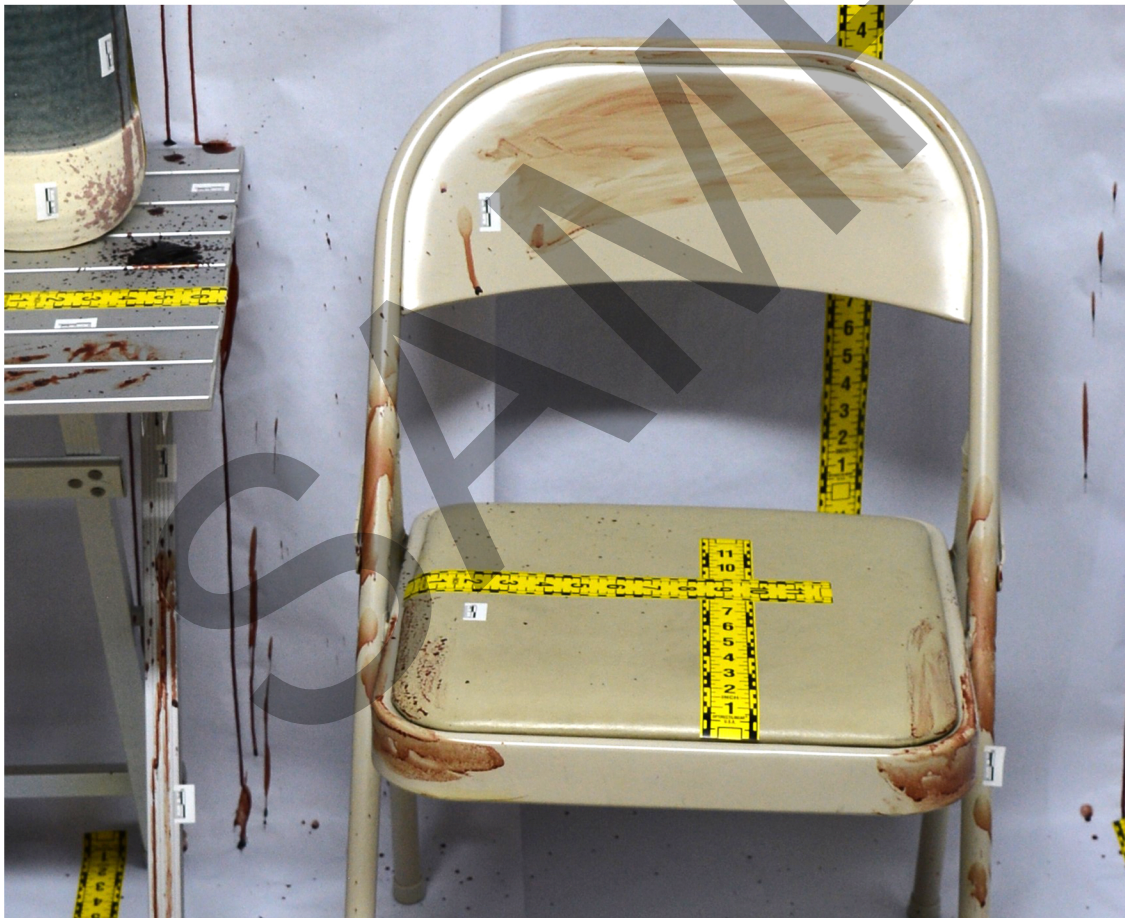
Bloodstain Pattern Analysis
Proficiency Test

Pattern Classification
Overall Scene w/scales





Pattern A





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Testing Division

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Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXXXX

Individual Participant Report - Test Code: XXXXXXXXXX

This test consisted of ten bloodstain patterns (Items 1A through 1J) and one impact bloodstain pattern (Item 2) for area of origin determination. The participant was expected to classify 10 bloodstain patterns using the OSAC Bloodstain Pattern Classification terminology and perform measurements for angle of impact and area of convergence to determine area of origin.

Listed below are the responses submitted by the participant assigned to this test code, as well as the assigned classifications and values for each of the bloodstain patterns and area of origin measurements. The assigned classifications for the bloodstain patterns or assigned range of acceptable values for the area of origin measurements were determined through ground truth information and verified by unanimous agreement or consensus (expert mean +/- 3 standard deviations) respectively, during pre-distribution testing.

Pattern	Participant's Response	Assigned Value
Item 1A	Swipe	Swipe
Item 1B	Pool	Pool
Item 1C	Drip Pattern	Drip Pattern
Item 1D	Transfer Stain	Transfer Stain
Item 1E	Drip Trail	Drip Trail
Item 1F	Transfer Stain	Transfer Stain
Item 1G	Saturation Stain	Saturation Stain
Item 1H	Cast-off Pattern	Cast-off Pattern
Item 1I	Drip Stain	Drip Stain
Item 1J	Projected Pattern	Projected Pattern

Item 2 Measurements	Participant's Response	Assigned Range of Value
Horizontal Measurement from Left edge of ruler on target	9.25 inches	8.46 inches – 10.2 inches
Vertical Measurement from Bottom edge of ruler on Target	0.75 inches	0.3 inches – 2.04 inches
Measurement out from Target	6.65 inches	4.77 inches – 8.73 inches

Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXXXX
Individual Participant Report

Accreditation Release Information for the Test Code: XXXXXXXXXX

Will the submitted test results for this participant be released to your agency's accrediting body?

No

Additional information about this test and the statistics obtained from all individuals that participated in this proficiency testing cycle will be provided in the final summary report.

It is recommended to postpone evaluating an individual's performance until after you have received the statistical averages contained in the summary report.

If your responses are inconsistent with the assigned values, RS&A provides its participants with a process to file an appeal. To initiate an appeal, please submit the required information in writing using the "File an Appeal" link in the PT Portal.

RS&A maintains the confidentiality of all clients. All results are published using randomly generated test codes. We will not release the identity of any participant without the written consent of the participant and/or the agency involved.

For any questions or further information, contact our Proficiency Testing Coordinator by emailing testing@ronsmithandassociates.com or call toll free at 1-866-832-6772.

Authorized by:

Date of Issue:

Ron Smith & Associates, Inc.

Testing Division

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Crime Scene Bloodstain Pattern Analysis Proficiency Test #25630

Manufacturer's Report

This test consisted of ten bloodstain patterns (Items 1A through 1J) and one impact bloodstain pattern (Item 2) for area of origin determination. The participant was expected to classify 10 bloodstain patterns using the OSAC Bloodstain Pattern Classification terminology and perform measurements for angle of impact and area of convergence to determine area of origin. The assigned bloodstain pattern classifications for Items 1A through 1J are as follows:

Pattern	Classification
Item 1A	Swipe
Item 1B	Pool
Item 1C	Drip Pattern
Item 1D	Transfer Stain
Item 1E	Drip Trail
Item 1F	Transfer Stain
Item 1G	Saturation Stain
Item 1H	Cast-off Pattern
Item 1I	Drip Stain
Item 1J	Projected Pattern

Item 1A: A bloody gloved hand was moved across the back of the chair.

Item 1B: Blood was slowly poured from a cup held closely to the floor.

Item 1C: Blood was allowed to drip into itself from a pipette held approximately 36" above the floor.

Item 1D: A bloody knife was placed on the carpet and then moved.

Item 1E: Blood was allowed to drip from a pipette held approximately 36" above the floor while moving.

Item 1F: A bloody gloved hand was pressed on the floor and then removed from the target.

Item 1G: Blood from the creation of pattern 1B wicked up through the piece of carpet.

Item 1H: A knife dipped in blood was swung in front of the target.

Item 1I: Blood was allowed to drip from a pipette held approximately 18" above the table.

Item 1J: Blood was placed in a pipette with a large opening and forced out towards the wall.

Manufacturer's Report

Item 2	Measurement from Left side of Target (Range of Values)	Measurement from Bottom of Target (Range of Values)	Measurement out from Target (Range of Values)
Area of Origin (Expert Mean)	9.33 inches (8.46 – 10.2)	1.17 inches (0.3 – 2.04)	6.75 inches (4.77 – 8.73)

Item 2: A hockey puck was placed on a concrete block in front of a poster board target. The distance was measured perpendicularly from the target to the center of the hockey puck at 8 inches. The distance was then measured from the left of the target to the perpendicular line of the hockey puck at 9.5 inches. Finally the distance was measured from the bottom of the target to the perpendicular line of the hockey puck at 1 inch. Approximately 1ml of blood was placed on the hockey puck and was then struck with a hammer.

Assigned Values

The assigned values (i.e., classifications) for the bloodstain patterns (Items 1A-1J) were determined through the ground truth information and verified through unanimous agreement during pre-distribution testing. The range of assigned values for the area of origin measurements was determined during pre-distribution testing using the expert mean +/- 3 Standard Deviations.

Individual reports will be provided to participants by October 31, 2025. The final summary report for this test will be posted on the RS&A PT Portal by November 7, 2025. Use the following link to access the RS&A PT Portal <https://ptportal.ronsmithandassociates.com>.

It is recommended to postpone evaluating an individual's performance until after you have received the statistical averages contained in the summary report.

For any questions or further information, contact our Proficiency Testing Coordinator by emailing testing@ronsmithandassociates.com or call toll free at 1-866-832-6772.

Authorized by: Jon Byrd, CEO

Issue Date: October 24, 2025



Ron Smith & Associates, Inc. Testing Division

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Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXX

Summary Report

Issued:

On August 20, 2025, Ron Smith and Associates, Inc. (RS&A) shipped the Crime Scene Bloodstain Pattern Analysis Proficiency Test #25630. Participants were required to submit their responses no later than October 10, 2025, for them to be included in this summary report.

A total of 3 tests were ordered and shipped, with 3 participants returning their responses. **This test was based on 3 participant submissions, each with 13 responses, equaling 39 total responses.**

The results presented in this report reflect whether the participants' submitted results are consistent with or not consistent with the assigned bloodstain pattern classifications and the assigned range of values garnered from pre-distribution testing and outlined in *The Manufacturer's Report* (see Appendix 1). The primary purpose of a Summary Report is to provide overall documentation of all the submitted responses. It is RS&A's intention to go a step further by providing more meaningful statistical results through analyzing the submitted responses in relation to the demographics obtained from each of the examiners participating in this proficiency test. All results and statistics for this test are outlined through graphs and charts found in the remainder of this report (Appendix 2).

RS&A strives to maintain the confidentiality of all its clients and participants. All results are obtained and published using randomly generated test codes. RS&A will not release the identity of any participant without the written consent of the participant and/or the agency involved.

For any additional information, please contact the Proficiency Testing Coordinator by emailing testing@ronsmithandassociates.com or by calling toll free at 1-866-832-6772.

Summary Report
Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXX
Appendix 1
Manufacturer's Report

This test consisted of ten bloodstain patterns (Items 1A through 1J) and one impact bloodstain pattern (Item #2) for area of origin determination. The participant was expected to classify 10 bloodstain patterns using the OSAC Bloodstain Pattern Classification terminology and perform measurements for angle of impact and area of convergence to determine area of origin. The assigned bloodstain pattern classifications for Items 1A through 1J are as follows:

Pattern	Classification
Item 1A	Swipe
Item 1B	Pool
Item 1C	Drip Pattern
Item 1D	Transfer Stain
Item 1E	Drip Trail
Item 1F	Transfer Stain
Item 1G	Saturation Stain
Item 1H	Cast-off Pattern
Item 1I	Drip Stain
Item 1J	Projected Pattern

Item 1A: A bloody gloved hand was moved across the back of the chair.

Item 1B: Blood was slowly poured from a cup held closely to the floor.

Item 1C: Blood was allowed to drip into itself from a pipette held approximately 36" above the floor.

Item 1D: A bloody knife was placed on the carpet and then moved.

Item 1E: Blood was allowed to drip from a pipette held approximately 36" above the floor while moving.

Item 1F: A bloody gloved hand was pressed on the floor and then removed from the target.

Item 1G: Blood from the creation of pattern 1B wicked up through the piece of carpet.

Item 1H: A knife dipped in blood was swung in front of the target.

Item 1I: Blood was allowed to drip from a pipette held approximately 18" above the table.

Item 1J: Blood was placed in a pipette with a large opening and forced out towards the wall.

Summary Report

Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXX

Item 2	Horizontal Measurement from Left Edge of Ruler on Target (Range of Values)	Vertical Measurement from Bottom Edge of Ruler on Target (Range of Values)	Measurement out from Target (Range of Values)
Area of Origin (Expert Mean)	9.33 inches (8.46 – 10.2)	1.17 inches (0.3 – 2.04)	6.75 inches (4.77 – 8.73)

Item 2: A hockey puck was placed on a concrete block in front of a poster board target. The distance was measured perpendicularly from the target to the center of the hockey puck at 8 inches. The distance was then measured from the left of the target to the perpendicular line of the hockey puck at 9.5 inches. Finally the distance was measured from the bottom of the target to the perpendicular line of the hockey puck at 1 inch. Approximately 1ml of blood was placed on the hockey puck and was then struck with a hammer.

Assigned Values

The assigned values (i.e., classifications) for the bloodstain patterns (Items 1A-1J) were determined through the ground truth information and verified through unanimous agreement during pre-distribution testing. The range of assigned values for the area of origin measurements was determined during pre-distribution testing using the expert mean +/- 3 Standard Deviations.

Individual reports will be provided to participants by October 31, 2025. The final summary report for this test will be posted on the RS&A PT Portal by November 7, 2025. Use the following link to access the RS&A PT Portal <https://ptportal.ronsmithandassociates.com>.

It is recommended to postpone evaluating an individual's performance until after you have received the statistical averages contained in the summary report.

For any questions or further information, contact our Proficiency Testing Coordinator by emailing testing@ronsmithandassociates.com or call toll free at 1-866-832-6772.

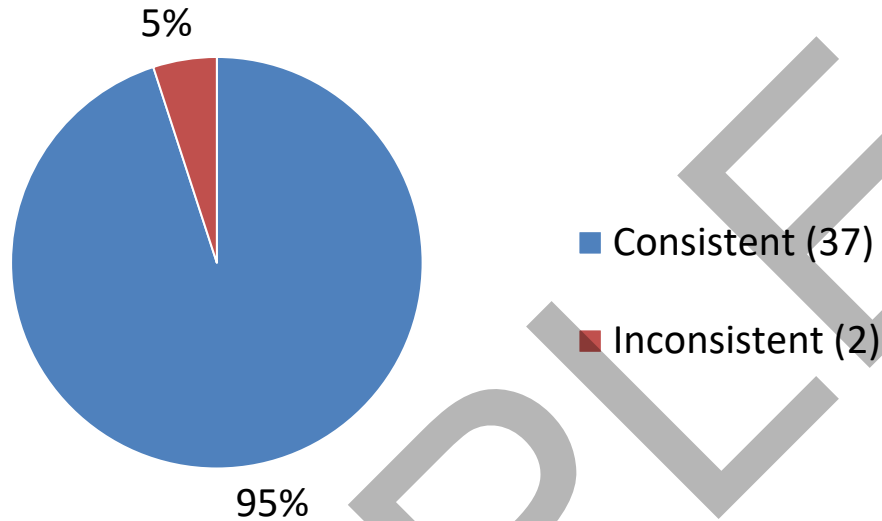
Authorized by:

Issue Date:

Summary Report
Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXX

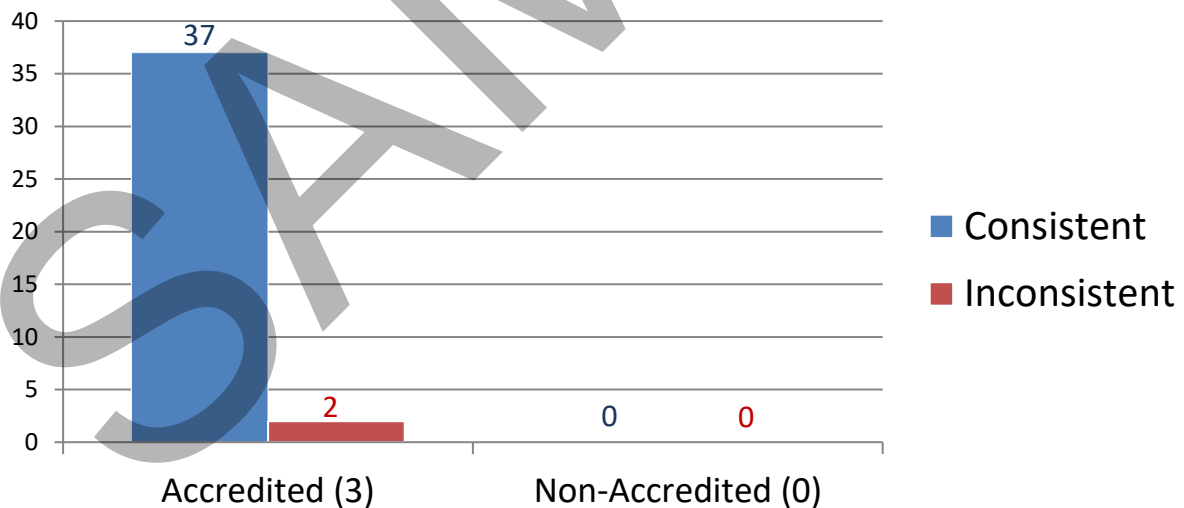
Appendix 2

**Consistent vs Inconsistent Responses
Compared to Assigned Values**



Appendix 3

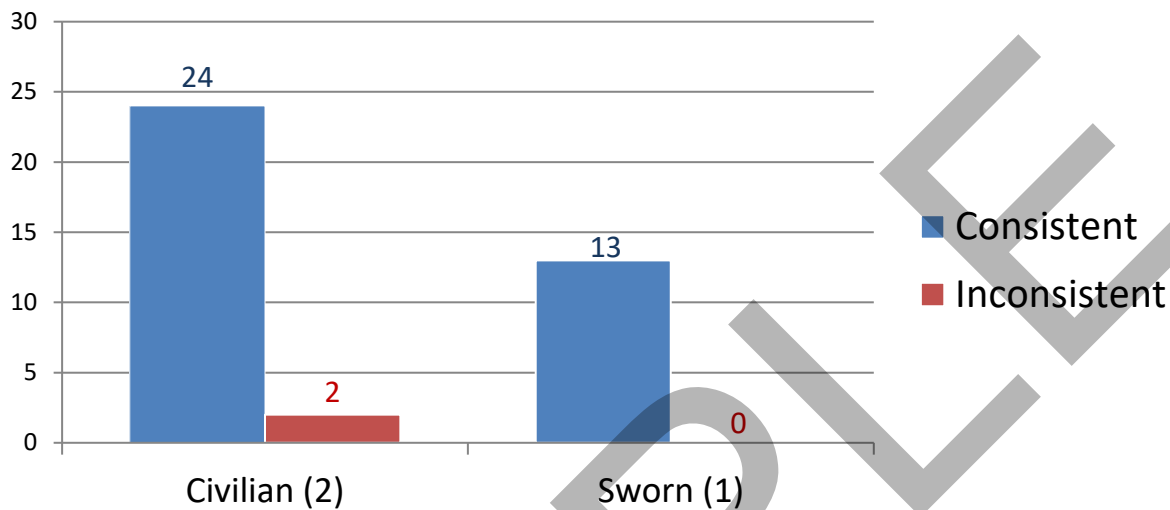
**Consistent vs Inconsistent Responses
Based on Accreditation**



Summary Report
Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXX

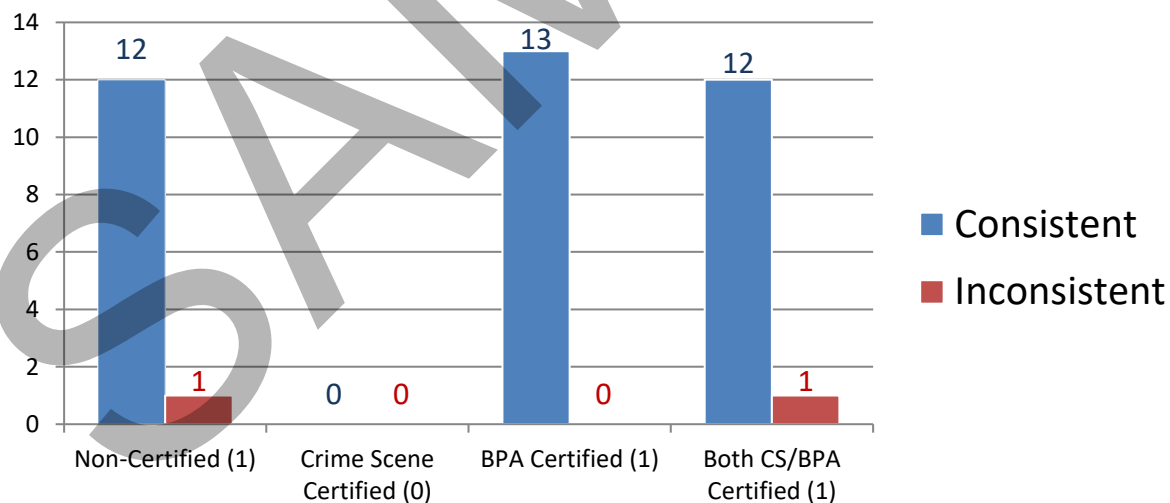
Appendix 4

**Consistent vs Inconsistent Responses
Based on Sworn or Civilian Status**



Appendix 5

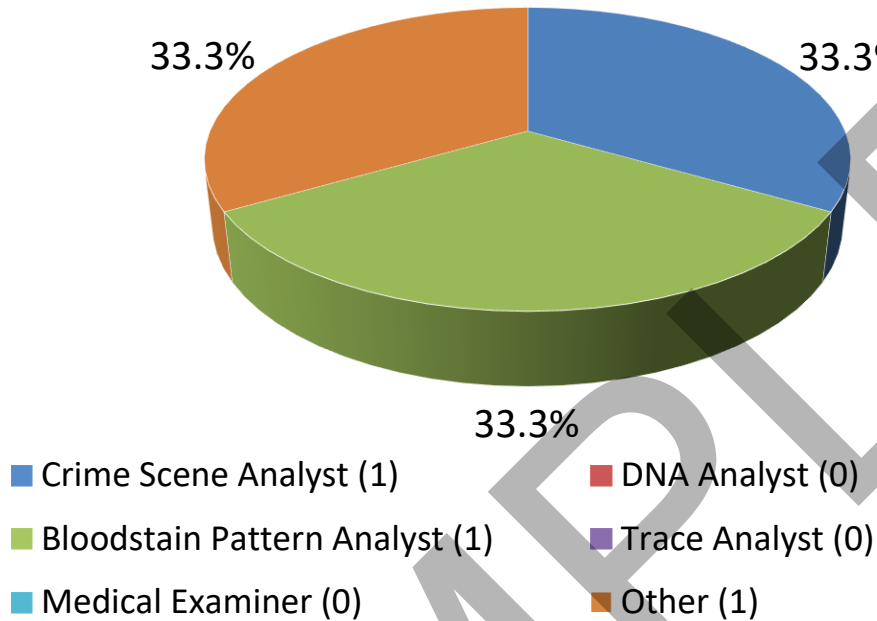
**Consistent vs Inconsistent Responses
Based on Certification Status**



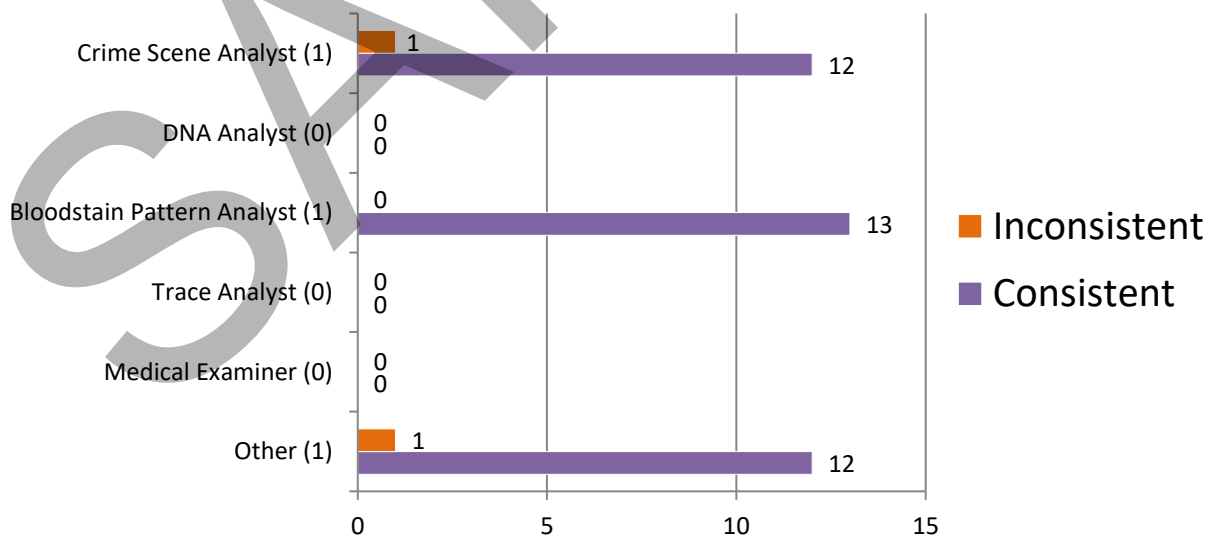
Summary Report
Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXX

Appendix 6

**Percentage of Participants
Based on Primary Job Position**

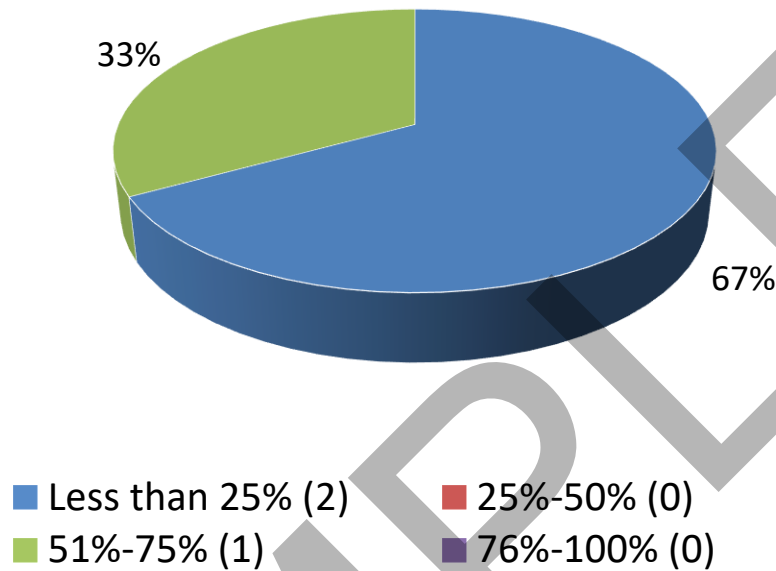


**Consistent vs Inconsistent Responses
Based on Primary Job Position**

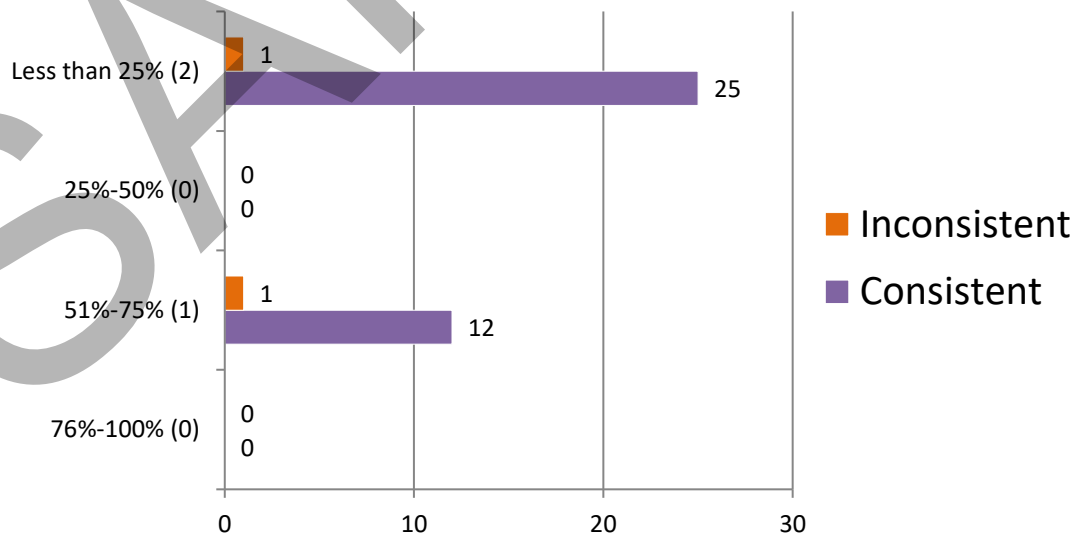


Summary Report
Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXX
Appendix 7

**Percentage of Participants
Based on Time Devoted to Bloodstain Pattern Analysis**

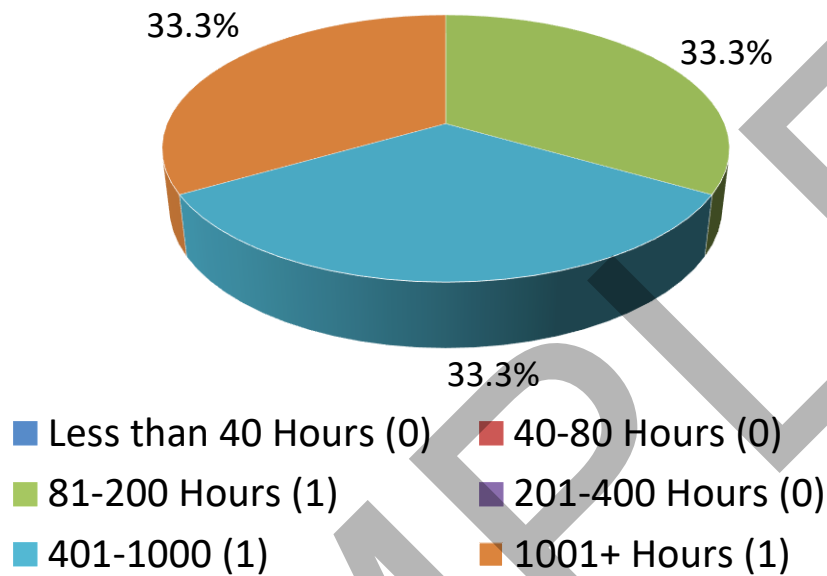


**Consistent vs Inconsistent Responses
Based on Time Devoted to Bloodstain Pattern Analysis**

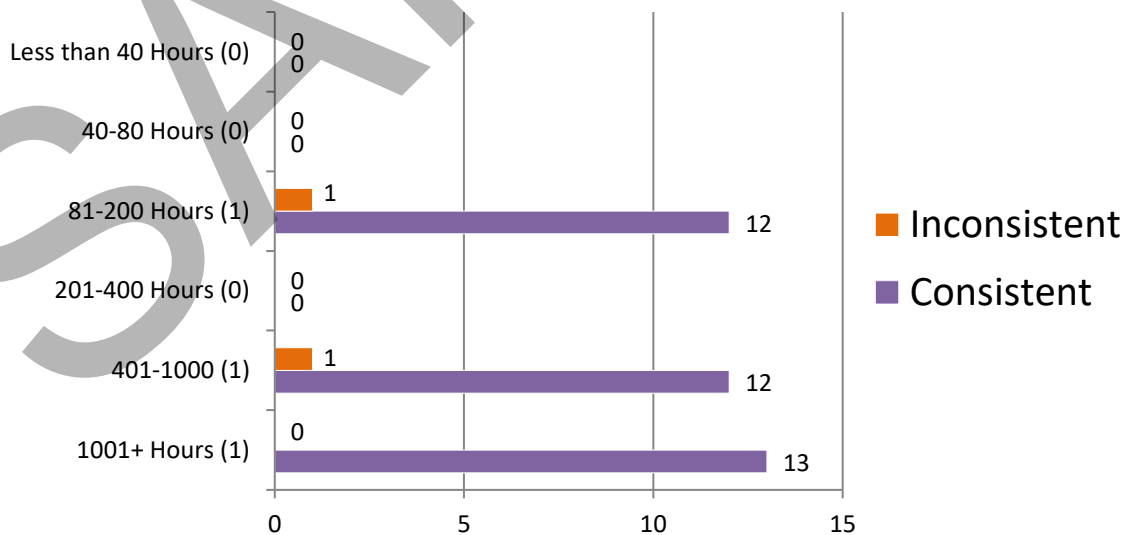


Summary Report
Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXX
Appendix 8

**Percentage of Participants Based on Hours of Bloodstain
Pattern Analysis Training Completed**

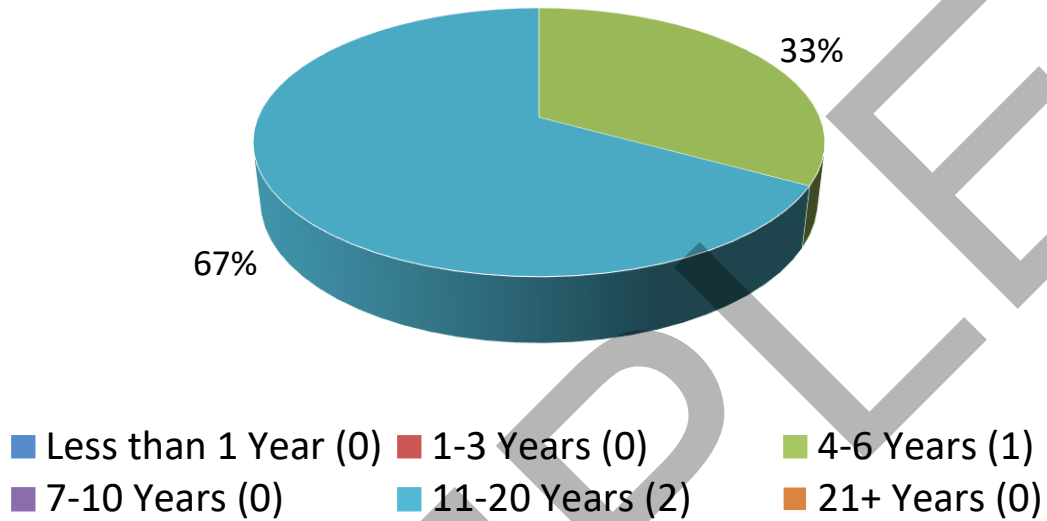


**Consistent vs Inconsistent Responses Based on Hours of
Bloodstain Pattern Analysis Training Completed**

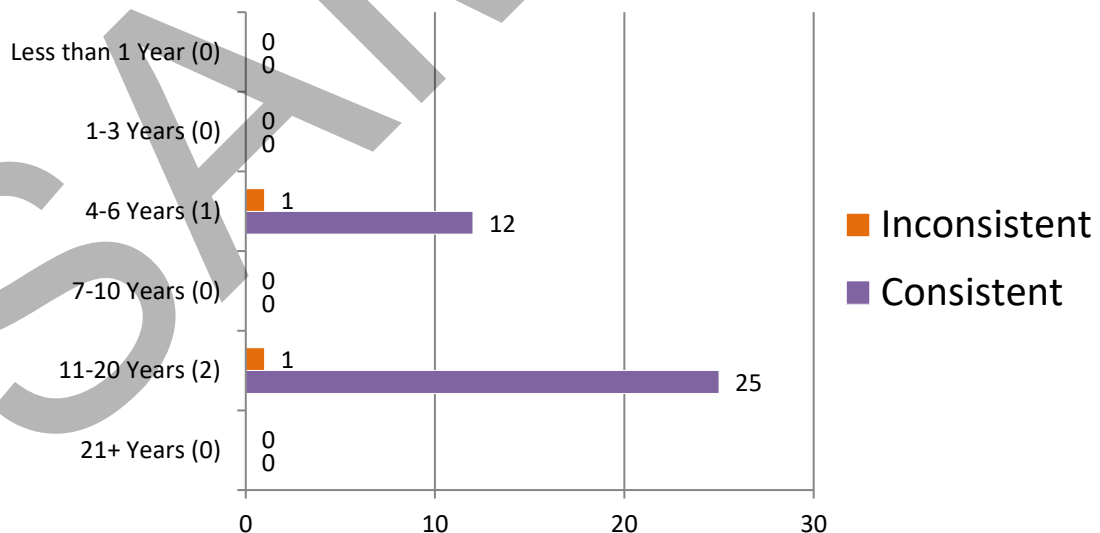


Summary Report
Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXX
Appendix 9

Percentage of Participants Based on Years of Experience in Bloodstain Pattern Analysis



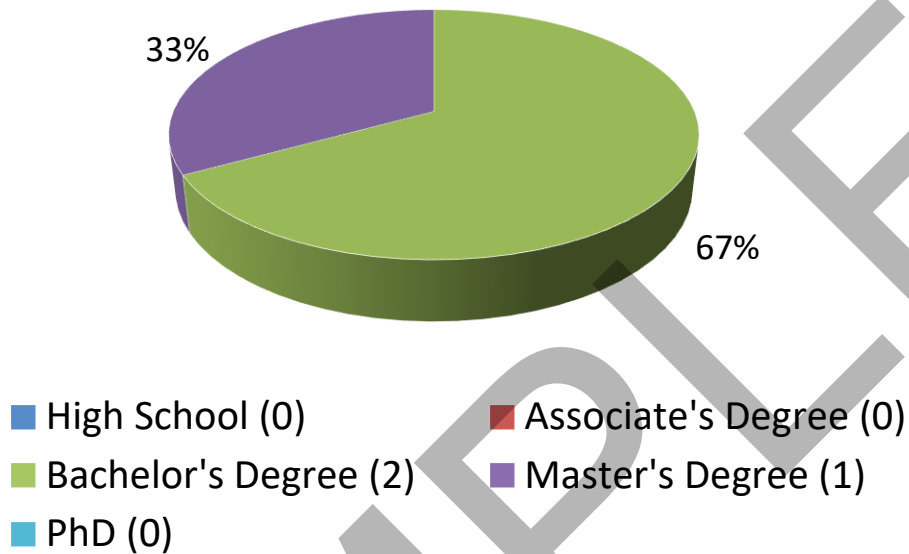
Consistent vs Inconsistent Responses Based on Years of Experience in Bloodstain Pattern Analysis



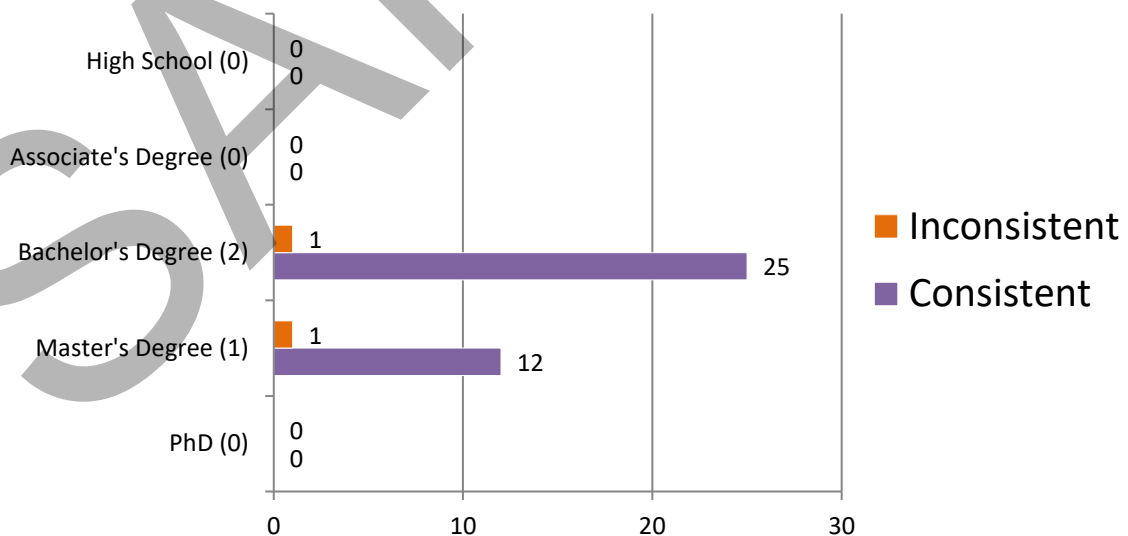
Summary Report
Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXX

Appendix 10

**Percentage of Participants
Based on Highest Level of Education Completed**

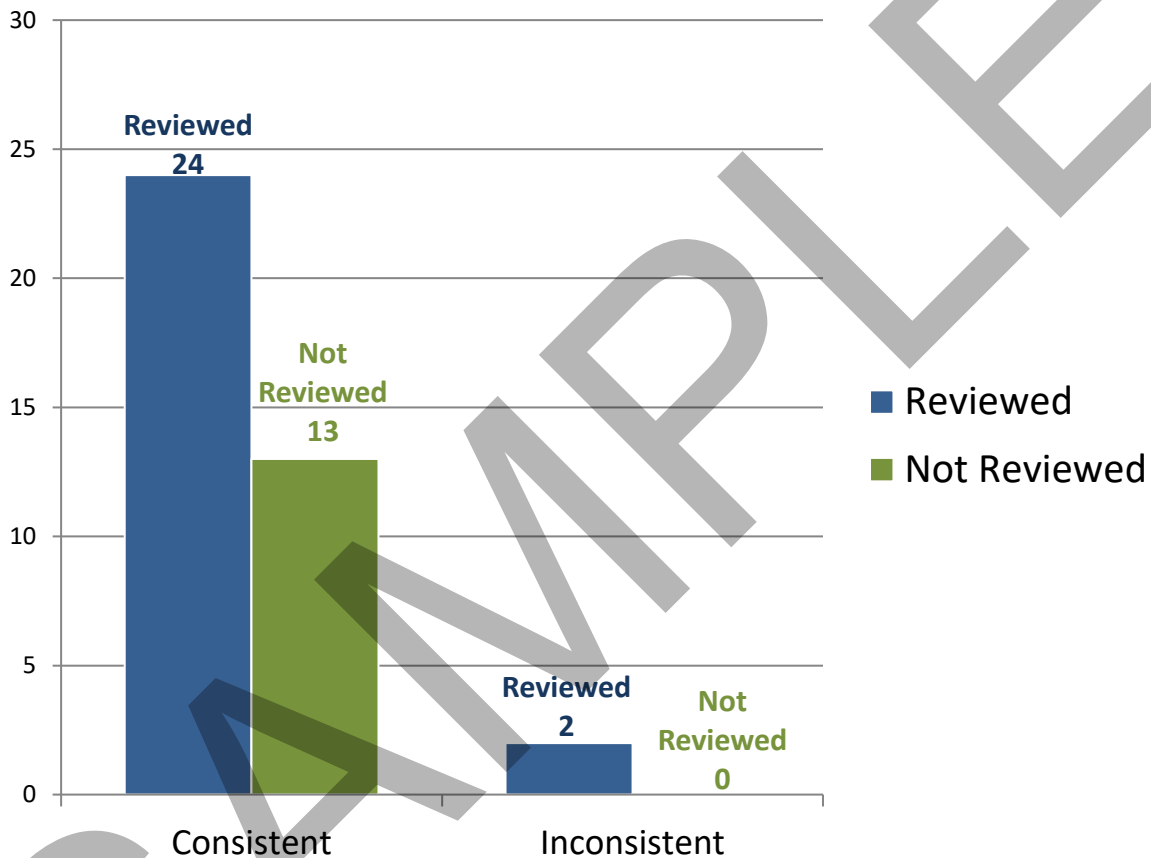


**Consistent vs Inconsistent Responses
Based on Highest Level of Education Completed**



Appendix 11

**Consistent vs Inconsistent Responses
Based on Review of Original Conclusions by
another Bloodstain Pattern Examiner Prior to
Submission**



Summary Report

Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXX

Appendix 12

Participant Responses Listed by Test Code

Pattern		1A	1B	1C	1D	1E	1F	1G	1H	1I	1J
Assigned Values		Swipe	Pool	Drip Pattern	Transfer Stain	Drip Trail	Transfer Stain	Saturation Stain	Cast-off Pattern	Drip Stain	Projected Pattern
Test Code	5994E25630	Swipe	Pool	Drip Pattern	Transfer Stain	Drip Trail	Transfer Stain	Saturation Stain	Cast-off Pattern	Drip Stain	Projected Pattern
	4107G25630	Swipe	Pool	Drip Pattern	Transfer Stain	Drip Trail	Transfer Stain	Saturation Stain	Cast-off Pattern	Drip Stain	Projected Pattern
	2653G25630	Swipe	Pool	Drip Pattern	Transfer Stain	Drip Trail	Transfer Stain	Saturation Stain	Cast-off Pattern	Drip Stain	Projected Pattern

Summary Report

Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXX

Item 2 Area of Origin	Horizontal Measurement from Left edge of Ruler on Target	Vertical Measurement from Bottom edge of Ruler on Target	Measurement out from Target
Known Ground Truth Values	9.5 inches	1 inch	8 inches
Assigned Range of Values (Expert Mean +/- 3 SD)	9.33 inches (8.46 – 10.2)	1.17 inches (0.3 – 2.04)	6.75 inches (4.77 – 8.73)
5994E25630	9.5 inches	2.75 inches	6 inches
4107G25630	9.25 inches	0.75 inches	6.65 inches
2653G25630	8.92 inches	1.23 inches	2.36 inches

Totals

Pattern	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J
Assigned Values	Swipe	Pool	Drip Pattern	Transfer Stain	Drip Trail	Transfer Stain	Saturation Stain	Cast-off Pattern	Drip Stain	Projected Pattern
Consistent Responses	3	3	3	3	3	3	3	3	3	3
Inconsistent Responses	0	0	0	0	0	0	0	0	0	0
Percentage of Consistent Reponses	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Summary Report

Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXXX

Item 2 Area of Origin	Horizontal Measurement from Left edge of Ruler on Target	Vertical Measurement from Bottom edge of Ruler on Target	Measurement out from Target
Assigned Range of Values	9.33 inches (8.46 – 10.2)	1.17 inches (0.3 – 2.04)	6.75 inches (4.77 – 8.73)
Consistent Responses	3	2	2
Inconsistent Responses	0	1	1
Percentage of Consistent Reponses	100%	66%	66%

Participant's Additional Comments

Test ID	Comments

Summary Report

Crime Scene Bloodstain Pattern Analysis Proficiency Test #XXX

Appendix 13

SD – Standard Deviation: This is a measure of how dispersed the data is in relation to the mean. Low, or small, standard deviation indicates data are clustered tightly around the mean, and high or large standard deviation indicates data are more spread out. The standard deviation is used to establish the assigned value. The expert mean values must be within +/- 2 SD of the known ground truth value for the impact pattern to be acceptable for use. The standard deviation is also used to determine the acceptable range of values for participant results. Participant results must be within +/- 3 SD of the expert mean value for the result to be considered consistent.

Inconsistent Response: When a participant reports an area of origin value that is outside of the +/- 3 standard deviations of the expert mean value or a bloodstain pattern classification that doesn't meet the assigned classification, the result is "flagged" (highlighted) as inconsistent.

Manufacturer's Additional Observations

Based upon a review of the submitted responses, the following observations were noted:

Satellite Stain was inadvertently absent from the list of options in the PT Portal. This has been resolved.

'Bloodstain' will be added to future tests as an option in the drop-down menu for the Pattern Classification portion. It is not RSA's intention to force anyone to choose a definitive answer. Bloodstain will be reflected as an inconclusive answer and will not be considered consistent with ground truth for Individual or Summary results.

Authorized by:

Date of Issue: