

Headquarters Laboratory

P.O. Box 670
Collinsville, MS 39325
Office (601) 626-1100
Fax (601) 626-1122



Florida Laboratory

201 Douglas Ave, Suite A
Dunedin, FL 34698
Office (727) 253-4991
Fax (727) 953-7849

Ron Smith & Associates, Inc.

Testing Division

Toll Free: 1-866-832-6772 | www.RonSmithandAssociates.com
Email: testing@ronsmithandassociates.com

Summary Report

Spring 2018 Latent Print Processing Proficiency Test #18501

Issued: May 10, 2018

On January 29, 2018, Ron Smith and Associates, Inc. (RS&A) shipped the Spring 2018 Latent Print Processing Proficiency Test #18501. Participants were required to submit their responses no later than March 26, 2018 in order for them to be included in this summary report. A total of 51 tests were ordered and shipped, with 48 participant returning their responses. **This summary report is based on 144 individual responses (48 participants returning 3 responses each).**

The results presented in this report reflect whether or not the participants' submitted results agree or disagree with the assigned values garnered from pre-distribution testing and outlined in ***The Manufacturer's Report*** (Appendix 1). The primary purpose of a Summary Report is to provide an 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 Test #18501 will be outlined through graphs and charts found in the remainder of this report.

RS&A strives to maintain the confidentiality of all of 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 Latent Print Processing Proficiency Testing Coordinator at testing@ronsmithandassociates.com or call toll free at 1-866-832-6772.

Appendix 1

Test Manufacturer's Information

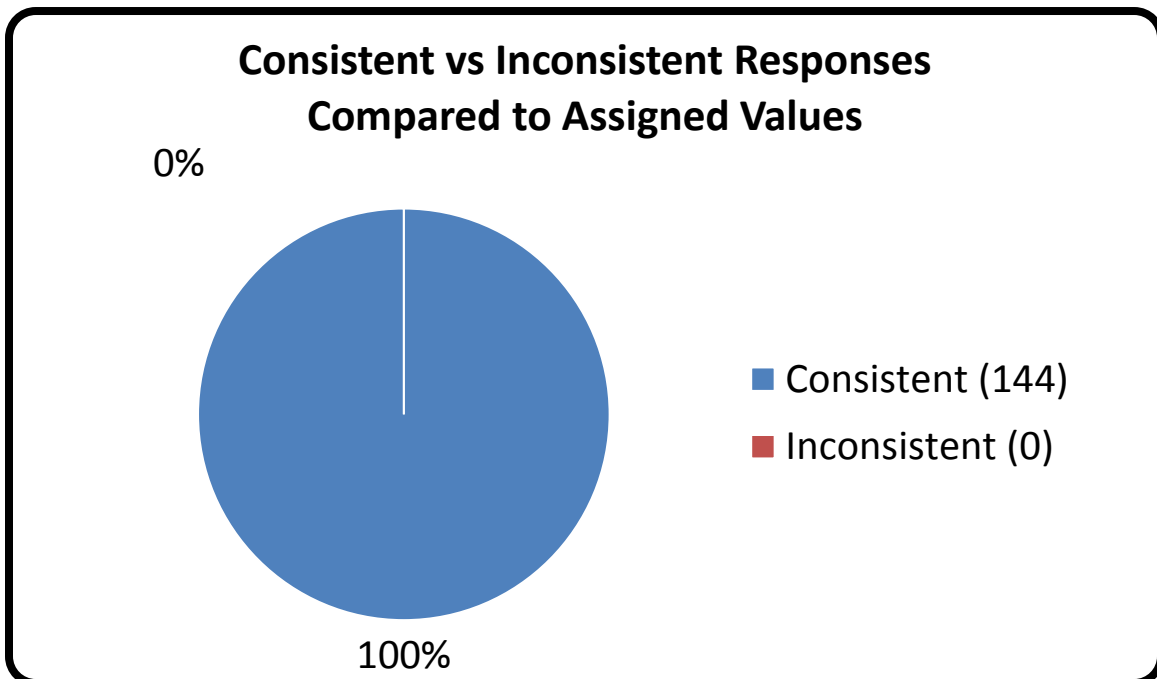
Spring 2018 Latent Print Processing Proficiency Test #18501

This proficiency test consisted of three exhibits. These exhibits were created by depositing known latent prints onto both porous and non-porous surfaces using appropriate matrices. The participant was required to process the exhibits for the presence of friction ridge detail. The assigned values are as follows:

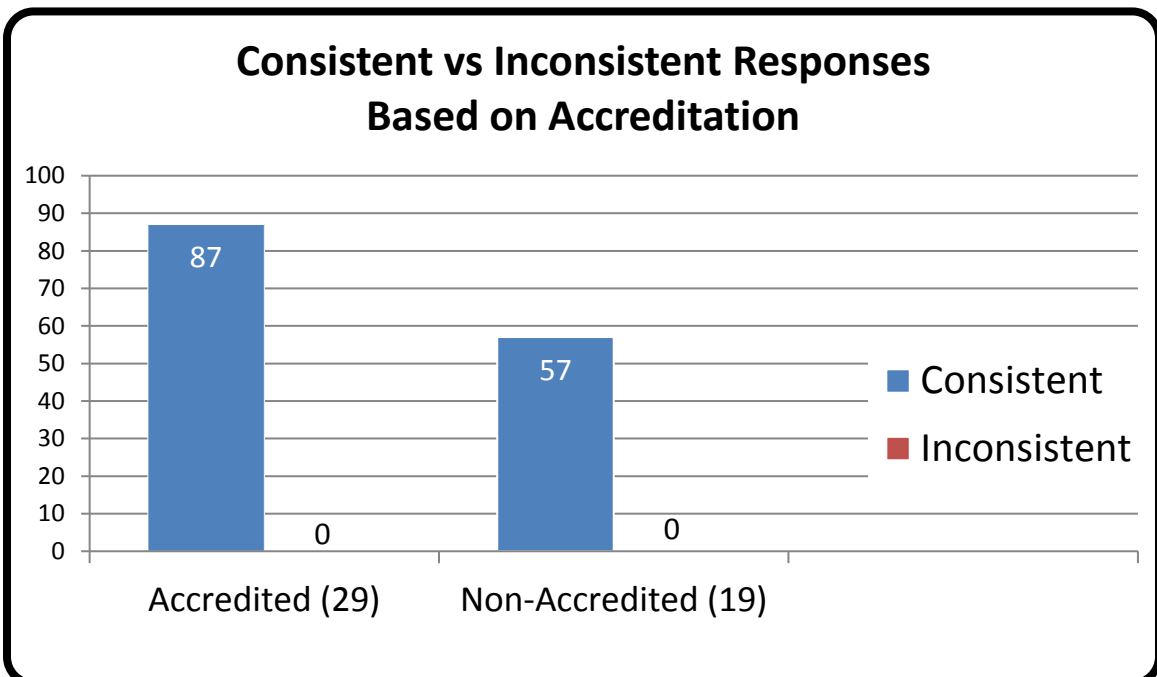
Exhibits Ex. #	Assigned Value
Ex. 1	Friction Ridge Detail Was Developed – Supported with Electronically Captured Image
Ex. 2	Friction Ridge Detail Was Not Developed OR Friction Ridge Detail Was Developed – Supported with Electronically Captured Image
Ex. 3	Friction Ridge Detail Was Developed – Supported with Electronically Captured Image

The assigned values were determined through the ground truth information and verified through unanimous agreement during pre-distribution testing.

Appendix 2



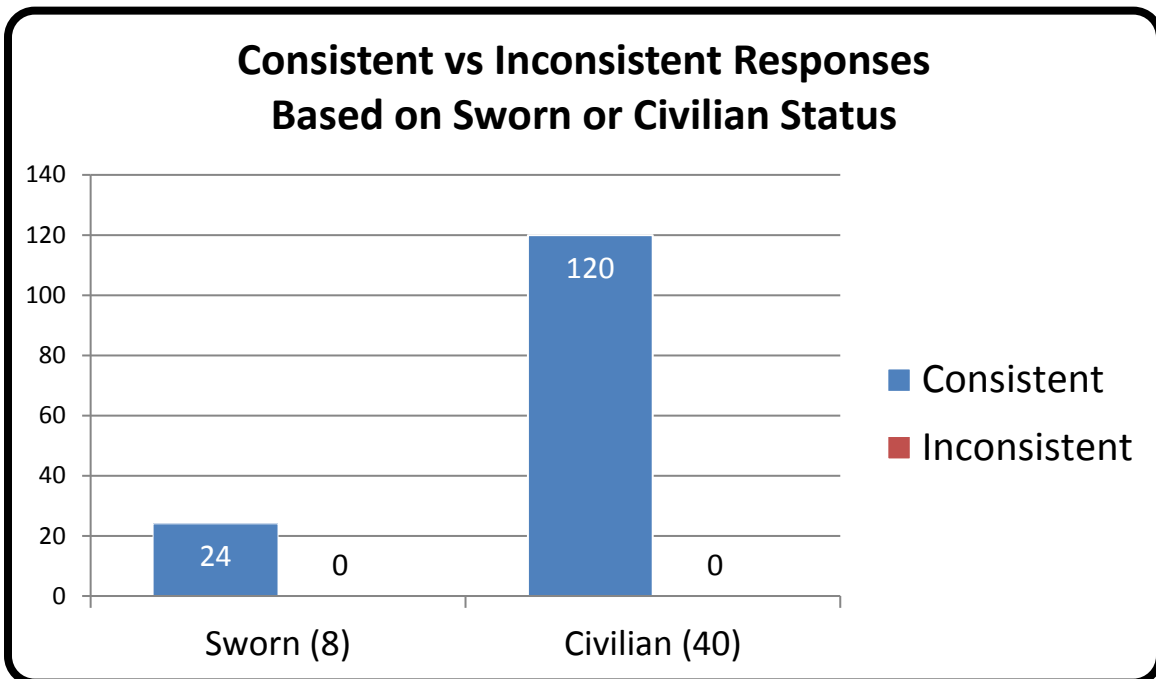
Appendix 3



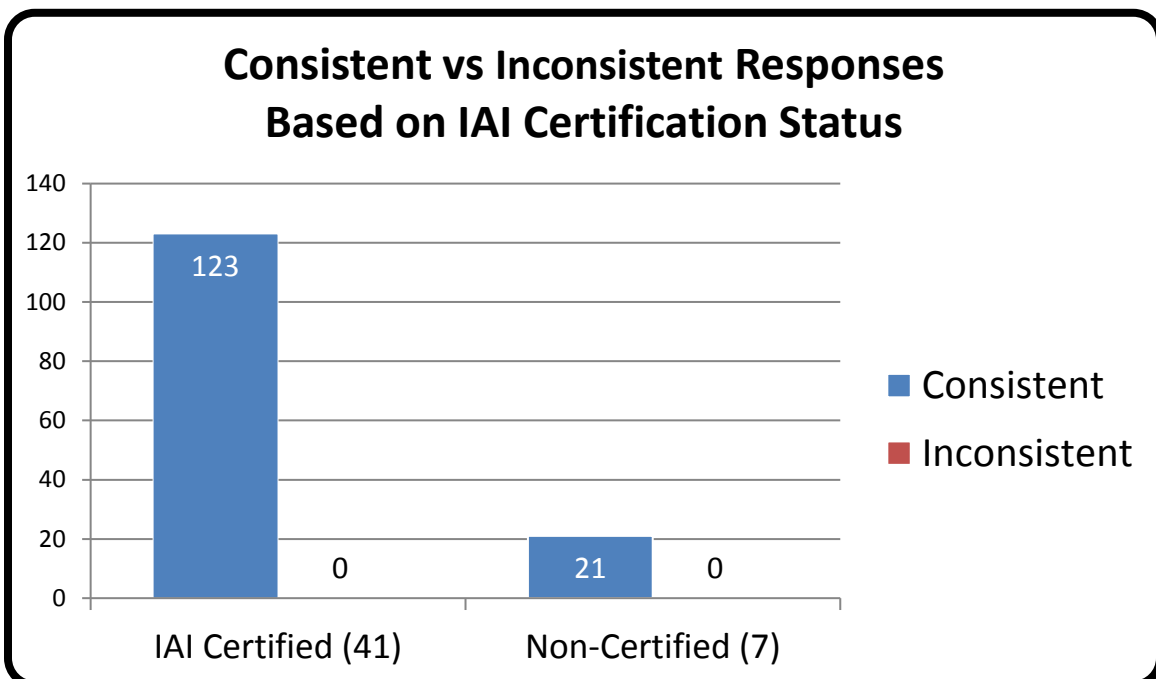
*Numerical values shown are based on **48 participant submissions** equaling **144 total responses**.

*For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Appendix 4



Appendix 5

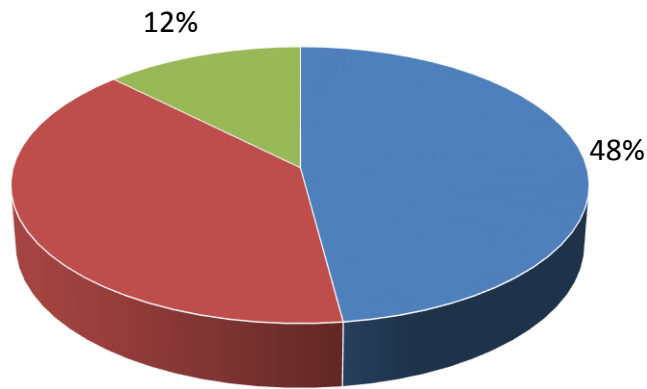


*Numerical values shown are based on **48 participant submissions** equaling **144 total responses**.

*For further information, please read **Manufacturer's Additional Observations** on the final page of this report.

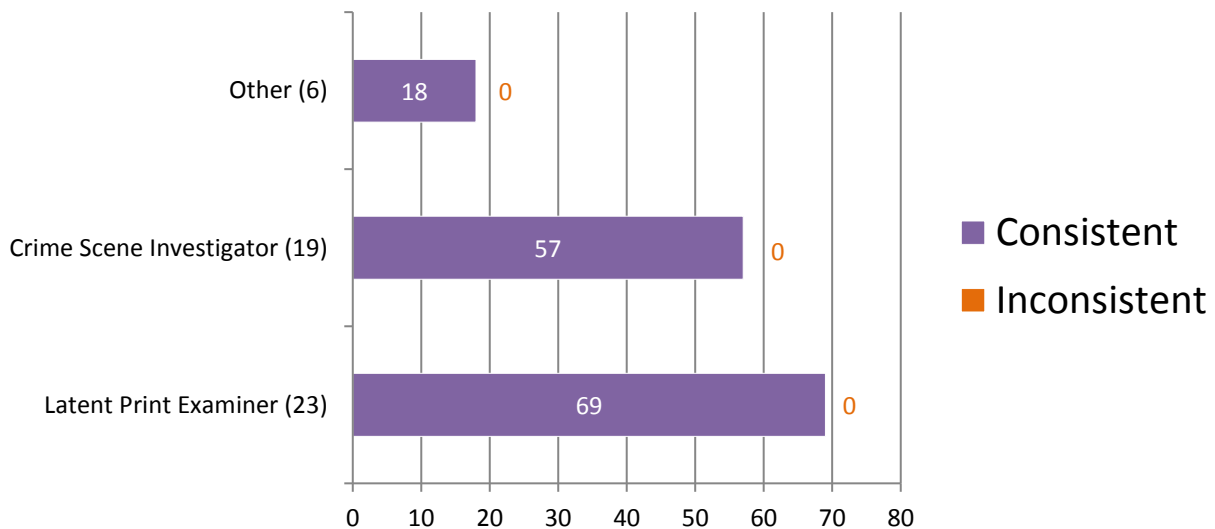
Appendix 6

Percentage of Participants Based on Primary Job Position



- Latent Print Examiner (23)
- Crime Scene Investigator (19)
- Other (6)

Consistent vs Inconsistent Responses Based on Primary Job Position

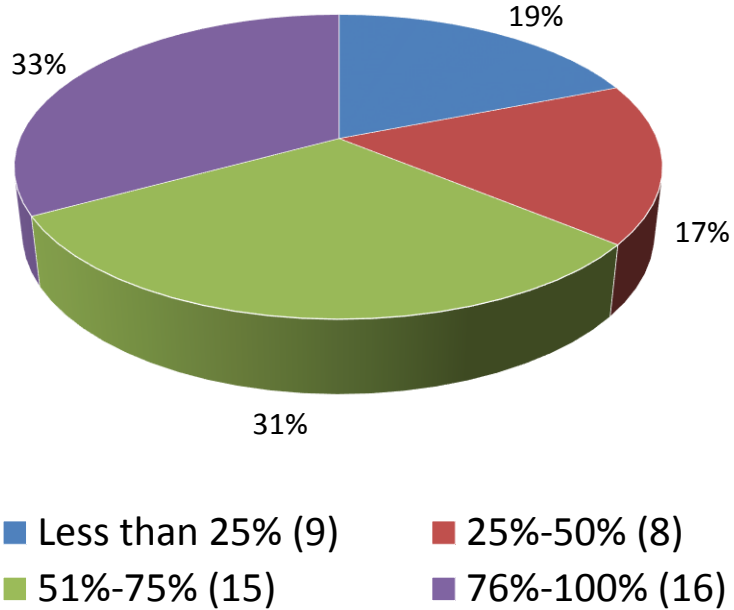


*Numerical values shown are based on **48 participant submissions** equaling **144 total responses**.

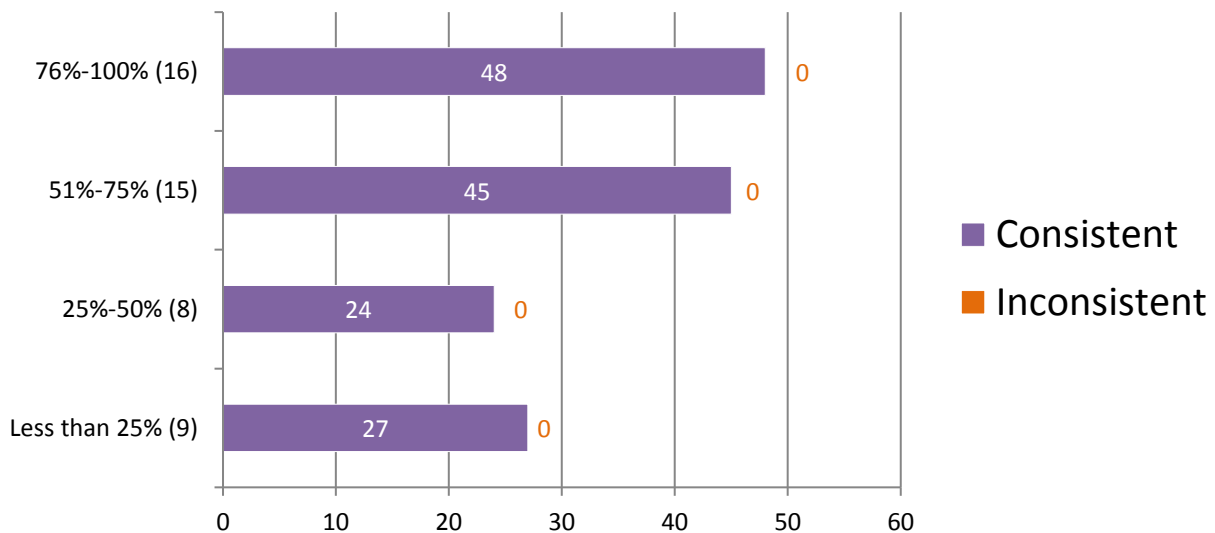
*For further information, please read **Manufacturer's Additional Observations** on the final page of this report.

Appendix 7

Percentage of Participants Based on Time Devoted to Latent Print Processing and Examination



Consistent vs Inconsistent Responses Based on Time Devoted to Footwear Casework

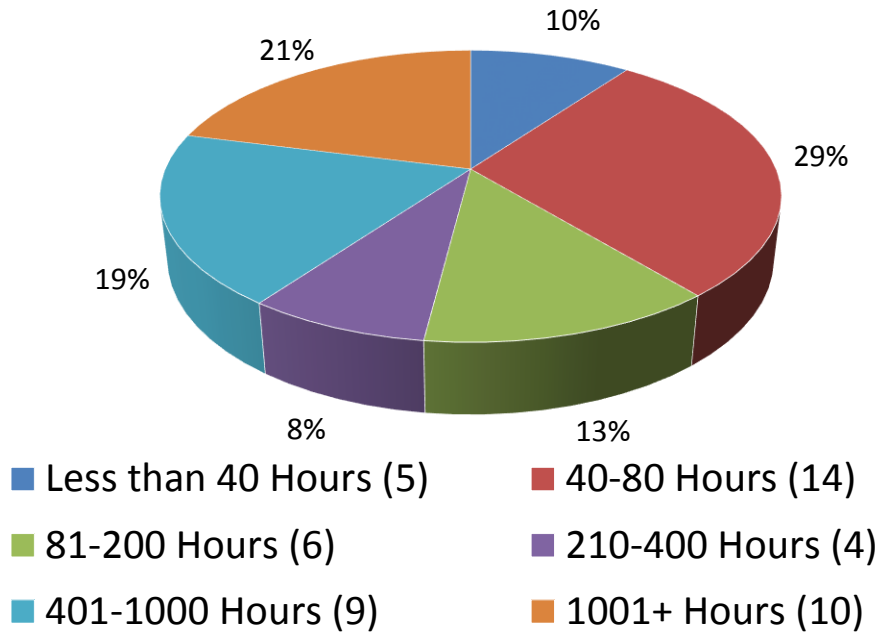


*Numerical values shown are based on **48 participant submissions** equaling **144 total responses**.

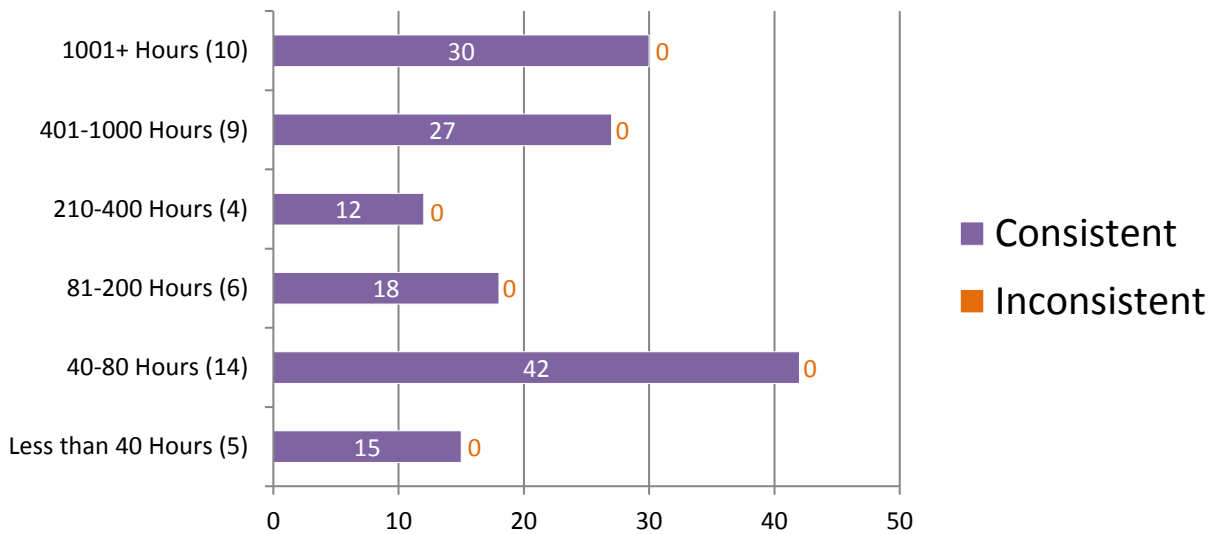
*For further information, please read **Manufacturer's Additional Observations** on the final page of this report.

Appendix 8

Percentage of Participants Based on Hours of Footwear Training Completed



Consistent vs Inconsistent Responses Based on Hours of Footwear Training Completed

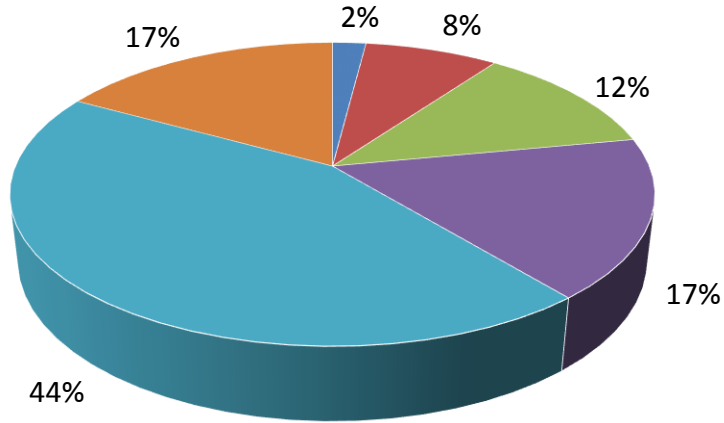


*Numerical values shown are based on **48 participant submissions** equaling **144 total responses**.

*For further information, please read **Manufacturer's Additional Observations** on the final page of this report.

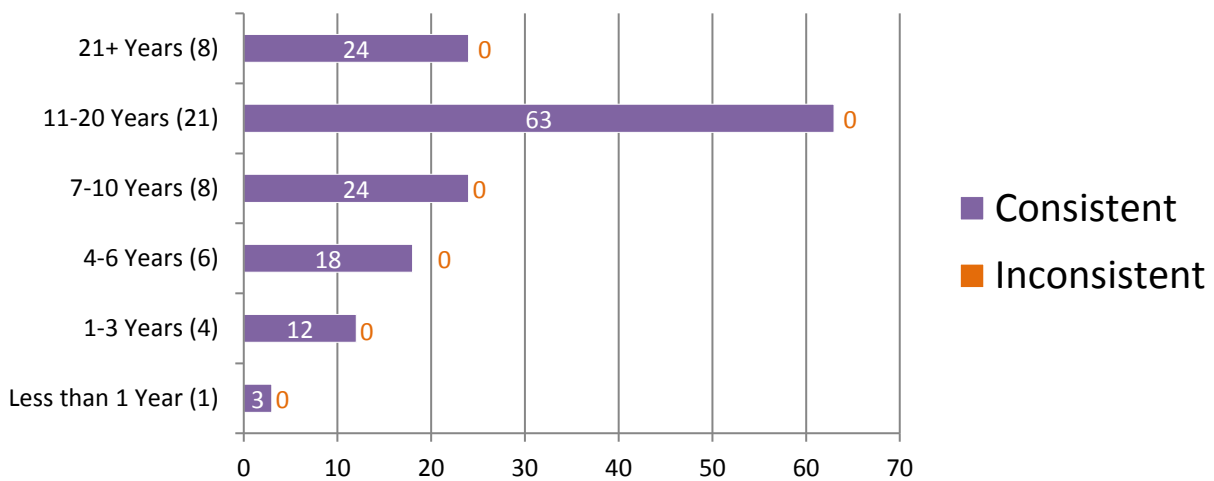
Appendix 9

Percentage of Participants Based on Years of Experience in Footwear Examinations



- Less than 1 Year (1) ■ 1-3 Years (4) ■ 4-6 Years (6)
- 7-10 Years (8) ■ 11-20 Years (21) ■ 21+ Years (8)

Consistent vs Inconsistent Responses Based on Years of Experience in Footwear Examinations

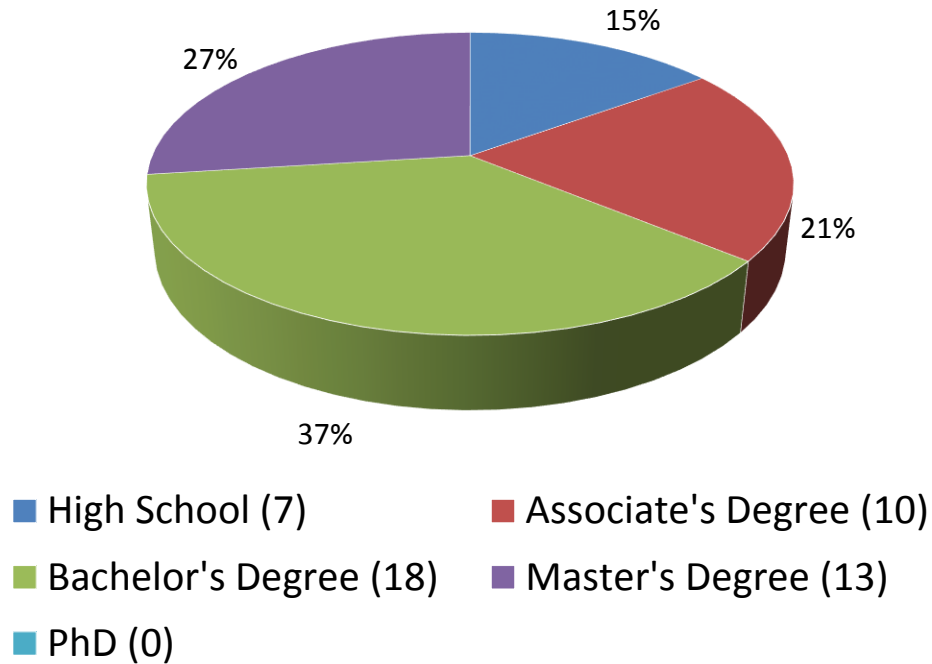


*Numerical values shown are based on **48 participant submissions** equaling **144 total responses**.

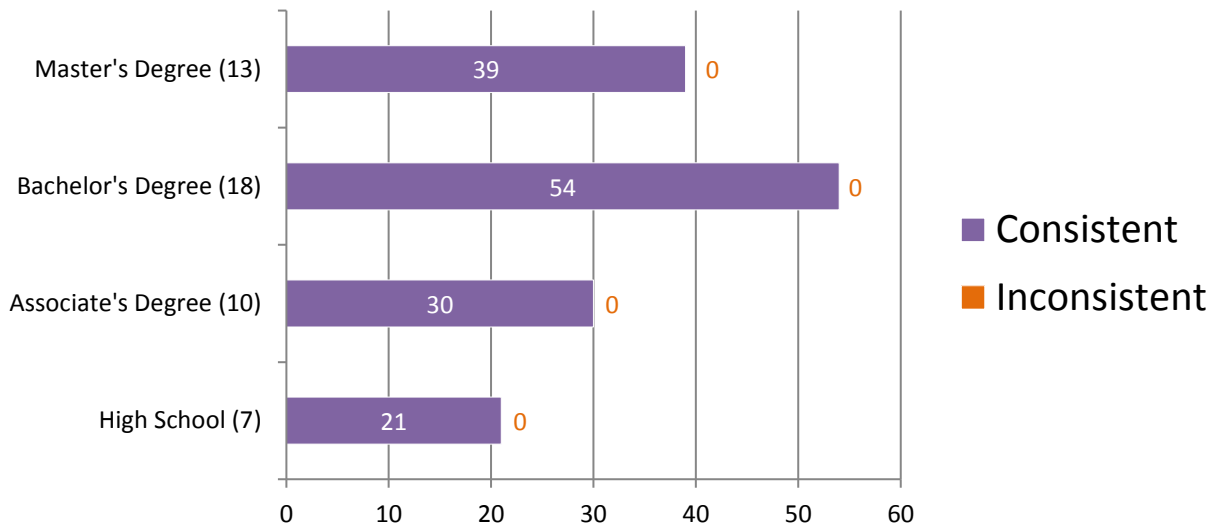
*For further information, please read **Manufacturer's Additional Observations** on the final page of this report.

Appendix 10

Percentage of Participants Based on Highest Level of Education Completed



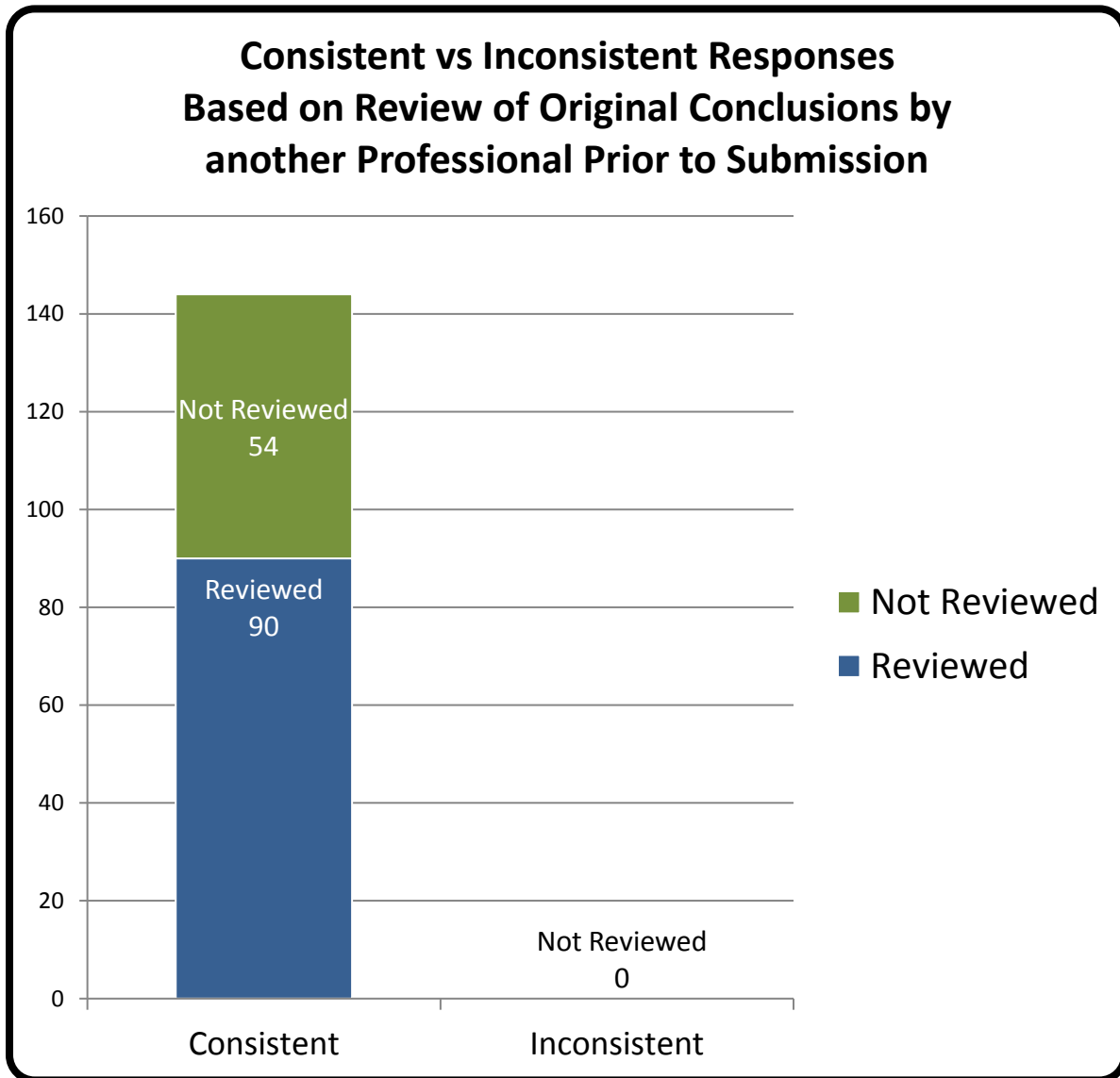
Consistent vs Inconsistent Responses Based on Highest Level of Education Completed



*Numerical values shown are based on **48 participant submissions** equaling **144 total responses**.

*For further information, please read **Manufacturer's Additional Observations** on the final page of this report.

Appendix 11



*Numerical values shown are based on **48 participant submissions** equaling **144 total responses**.

*For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Appendix 12

Participant Responses Listed by Test Code

	Exhibit #	Ex. 1	Ex. 2	Ex. 3
	Assigned Values	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed OR Friction Ridge Detail Was <u>Not</u> Developed	Friction Ridge Detail Was Developed
Test Code	1161K18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was <u>Not</u> Developed	Friction Ridge Detail Was Developed
	131U18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was <u>Not</u> Developed	Friction Ridge Detail Was Developed
	1797C18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was <u>Not</u> Developed	Friction Ridge Detail Was Developed
	1825I18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was <u>Not</u> Developed	Friction Ridge Detail Was Developed
	2067T18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was <u>Not</u> Developed	Friction Ridge Detail Was Developed
	2097N18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was <u>Not</u> Developed	Friction Ridge Detail Was Developed
	2733U18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was <u>Not</u> Developed	Friction Ridge Detail Was Developed
	2988K18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was <u>Not</u> Developed	Friction Ridge Detail Was Developed
	3112N18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was <u>Not</u> Developed	Friction Ridge Detail Was Developed
	3178J18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was <u>Not</u> Developed	Friction Ridge Detail Was Developed
	3305V18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was <u>Not</u> Developed	Friction Ridge Detail Was Developed
	3613M18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed

	Assigned Values	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed OR Friction Ridge Detail Was Not Developed	Friction Ridge Detail Was Developed
Test Code	4089J18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	4215T18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	4338H18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	4458E18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	4522P18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	4659M18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed
	4809E18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	5144M18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed
	5155C18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	5367C18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	5424T18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed
	5621X18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed
	5961N18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	6135W18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed

	Assigned Values	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed OR Friction Ridge Detail Was Not Developed	Friction Ridge Detail Was Developed
Test Code	6287I18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	6634C18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	6732M18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	6833X18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	691Z18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	6939N18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed
	719L18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	7200I18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed
	7569Y18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed
	7794V18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	7821A18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	7838U18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	8120Q18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	8172H18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed

	Assigned Values	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed OR Friction Ridge Detail Was Not Developed	Friction Ridge Detail Was Developed
Test Code	8297G18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	8525C18501	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed
	9114K18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	9324P18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	9396V18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	9666I18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
	9732Q18501	Friction Ridge Detail Was Developed	Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed

Totals

Exhibit #	Ex. 1	Ex. 2	Ex. 3
Assigned Values	Friction Ridge Detail Was Developed	Friction Ridge Detail Was Developed OR Friction Ridge Detail <u>Was Not</u> Developed	Friction Ridge Detail Was Developed
Consistent Responses	48	48	48
Inconsistent Responses	0	0	0
Percentage of Consistent Responses	100%	100%	100%

Participant's Additional Comments

Test ID	Comments
3178J18501	<p>“Exh:1 Upon visual inspection I noticed a finger impression. I used dual contrast powder to further develop the print. Digital Image was taken.</p> <p>Exh:2 Upon visual inspection no impression was noticed. I used dual contrast powder. No ridge detail was developed.</p> <p>Exh:3 Photo copy was made of paper. Ninhydrin was used, then evidence was placed in heat chamber for further development of prints. After 15 minutes I noticed ridge detail had developed, and digital image was taken. ”</p>
3613M18501	<p>“Ex 1 disclosed impression at visual examination, and photographed. Ex. 1 then treated with Aluminium Powder which further enhanced the original impression, re-photographed, submitted (see attached image). Ex. 1 subjected to further sequential treatment of superglue fuming followed BY-40 dye-staining, result no further impressions revealed. No improvement over the 'Ali' powder treatment, no further impressions developed. Ex. 1 complete.</p> <p>Ex 2 Initial Visual and Fluorescent examination - result negative. Ex. 2 then subjected to Superglue fuming followed by BY-40 dye-stain procedure which disclosed the resulting impression, submitted (see attached). EX. 2 complete</p> <p>Ex. 3 Initial visual examination, result negative. Ex. 3 then examined using fluorescent lights (green laser 532nm) - result impression visualised and recorded, not submitted. Ex. 3 then subjected to Indandione process and impression further revealed / enhanced and recorded, submitted (see attached). Ex. 3 subjected to further sequential treatments of; Ninhydrin, impression re-photographed, not submitted and; Physical Developer Treatment, result no further impressions developed. Ex 3 complete.”</p>
4215T18501	<p>“A mark was noticed in Ex. 2; however, no photo was taken due to no detail being present”</p>
4659M18501	<p>“A second area of ridge detail was developed on item Exhibit 3; however, it would only allow 1 picture to be uploaded”</p>
4809E18501	<p>“On Exhibit 2, I developed what would appear to be a swipe of possible residue with a possible glove pattern (no discernible ridge detail). I did photograph the area just as a record of what I saw. ”</p>
6833X18501	<p>“exhibit 1 : ridge visible with optical detection and nothing more after cyanoacrylate process.</p> <p>Exhibit 3 : only one result, always th same after the sequence DFO-indanedione-ninhydrine”</p>
7200I18501	<p>“A suitable transfer impression of friction ridge detail was also photographed on Exhibit 3. Additional images can be submitted if requested. ”</p>

Manufacturer's Additional Observations

Based upon a review of the one hundred forty four (144) total submitted responses, the following observations were noted:

1. There were no inconsistent responses submitted from participants in test 18501. RS&A chose to accept both "Friction ridge detail was developed, as well as Friction ridge detail was NOT developed" as accurate findings on exhibit 2. Some participants did find a print evidently left during the manufacturing process of the object.

Authorized by: Ron Smith, President
Ron Smith and Associates, Inc.

Date of Issue: May 10, 2018