



Ron Smith & Associates, Inc.

Testing Division

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Summary Report

Latent Print Comparison Proficiency Test #21101
Issued: June 1, 2021

On February 1, 2021, Ron Smith and Associates, Inc. (RS&A) shipped the Latent Print Comparison Proficiency Test #21101. Participants were required to submit their responses no later than April 26, 2021 in order for them to be included in this summary report.

A total of 145 tests were ordered and shipped, with 115 participants returning their responses. **This summary report is based on 1,150 individual responses (115 participants returning 10 responses each).** The test was provided in both digital and/or hard copy format and included ten latent prints and four sets of known fingerprints and palm prints.

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 this test will be outlined through graphs and charts found in the remainder of this report.

Prior to distribution of this test, all the expected responses were determined, by internal and external consensus, to be either "Identification" or "Exclusion"; however, we are aware that some agencies allow for a conclusion of "Inconclusive" in their casework. 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 were allowed to enter "Inconclusive" as a response. Due to the fact that a participant's "Inconclusive" response does not meet the assigned values, it will appear as an inconsistent response in this 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.

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

Appendix 1

Test Manufacturer's Information

Latent Print Comparison Proficiency Test #21101

This test consisted of ten latent prints and four sets of known fingerprints and palm prints. The participant was expected to compare the known prints to the latent prints for a determination of inclusion/exclusion. The assigned values are as follows:

L-#	Conclusion	Subject Number	Specific Finger or Palm
L-1	Identification	K-1	Left Index
L-2	Identification	K-1	Left Thumb
L-3	Identification	K-4	Right Thumb
L-4	Identification	K-3	Right Thumb
L-5	Exclusion		
L-6	Identification	K-4	Right Middle
L-7	Exclusion		
L-8	Identification	K-3	Right Palm
L-9	Exclusion		
L-10	Identification	K-1	Left Palm

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

Individual reports will be provided to participants by late May 2021. The final summary report for this test will be posted on the Ron Smith and Associates website by early June 2021 using the following link: <http://www.ronsmithandassociates.com/proficiency/latentprintcomparison.html>

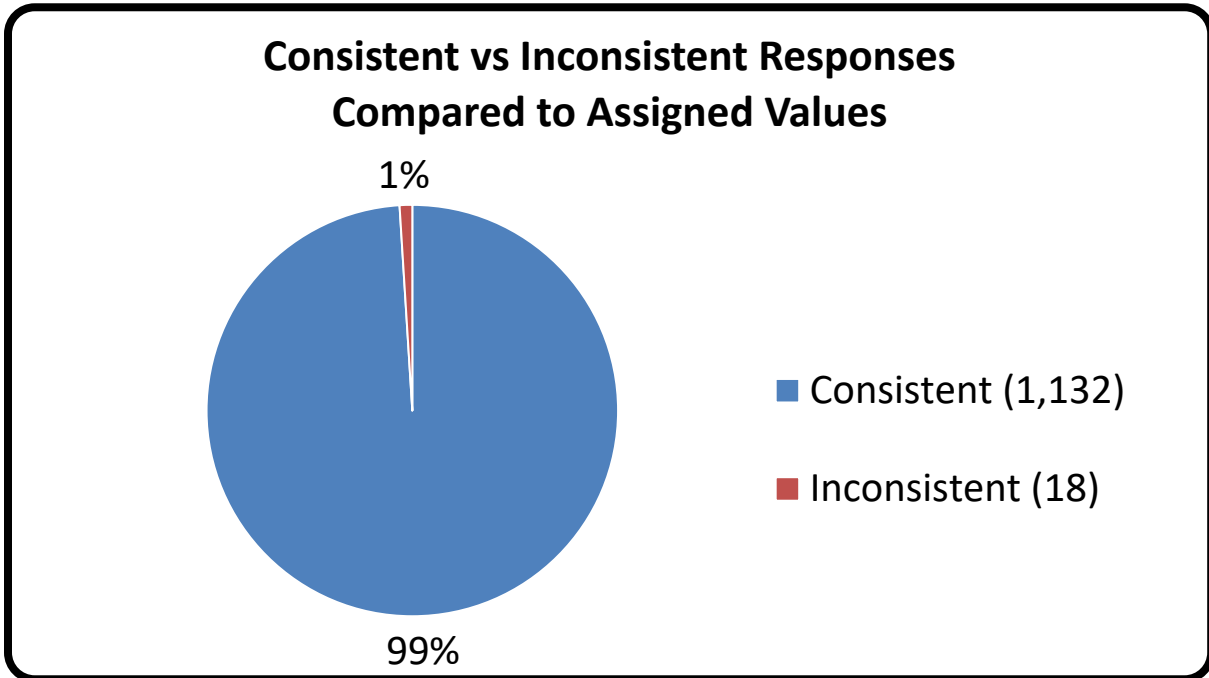
It is recommended to postpone evaluating an individual's performance until after you have received the statistical averages contained in the summary report.

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.

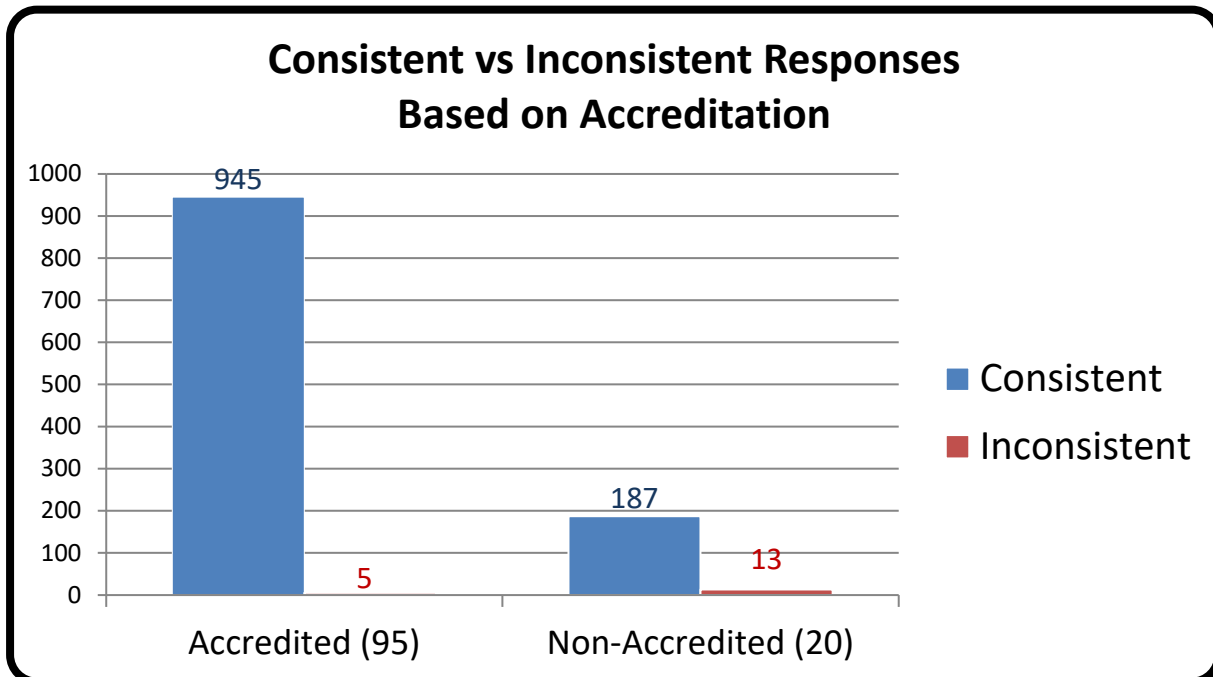
Authorized by: Ron Smith, President

Issue Date: May 10, 2021

Appendix 2



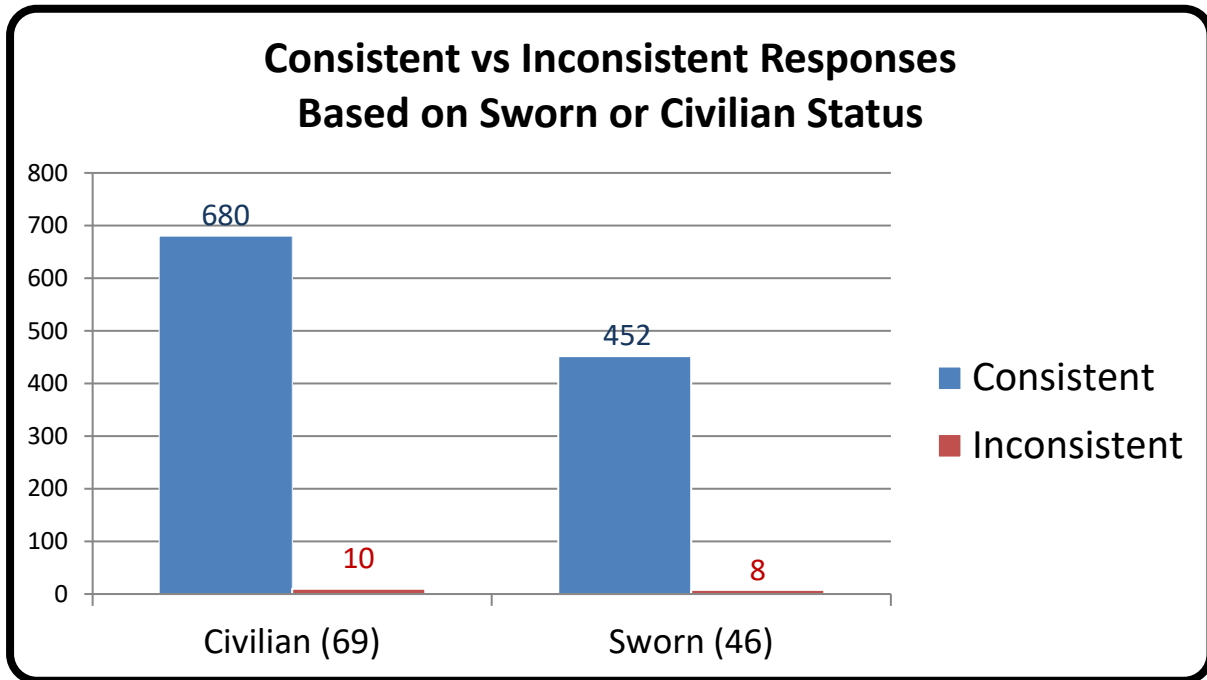
Appendix 3



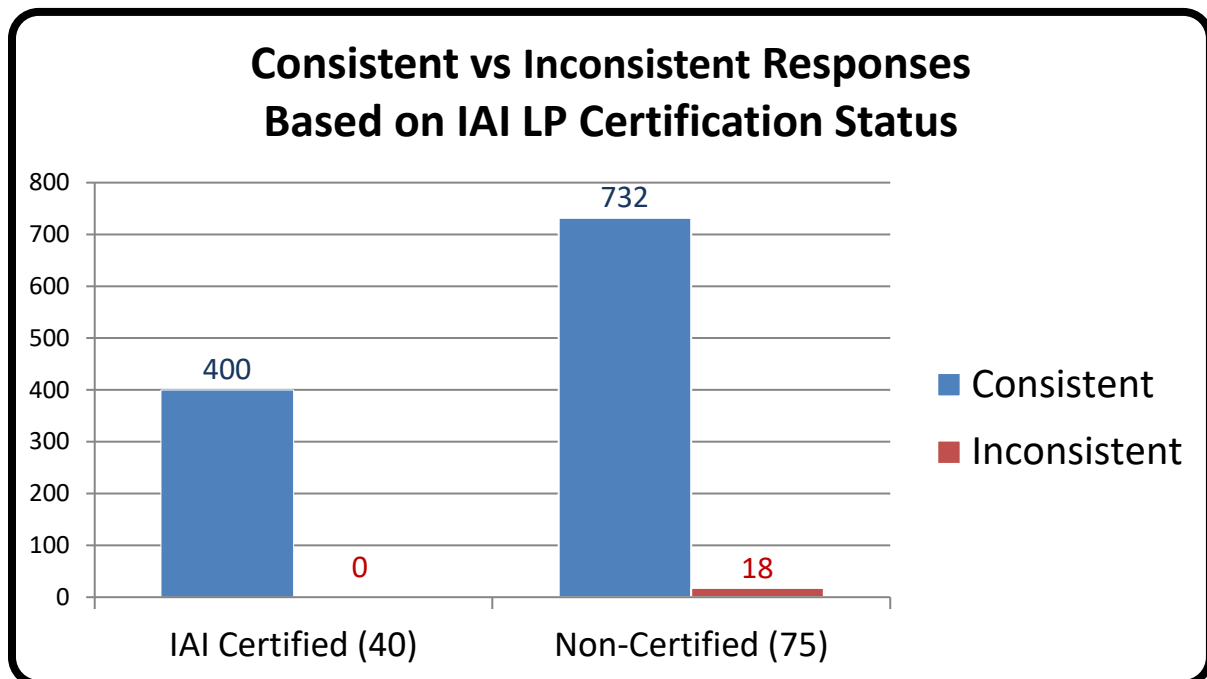
*Numerical values shown are based on 115 participant submissions, each with 10 responses, equaling 1,150 total responses.

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

Appendix 4



Appendix 5

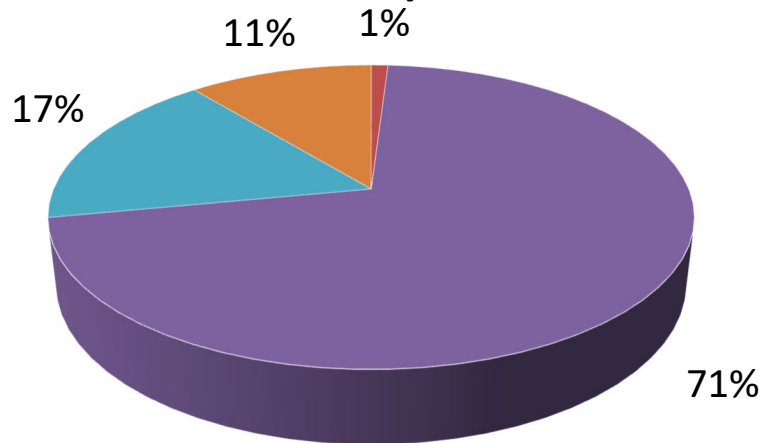


*Numerical values shown are based on 115 participant submissions, each with 10 responses, equaling 1,150 total responses.

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

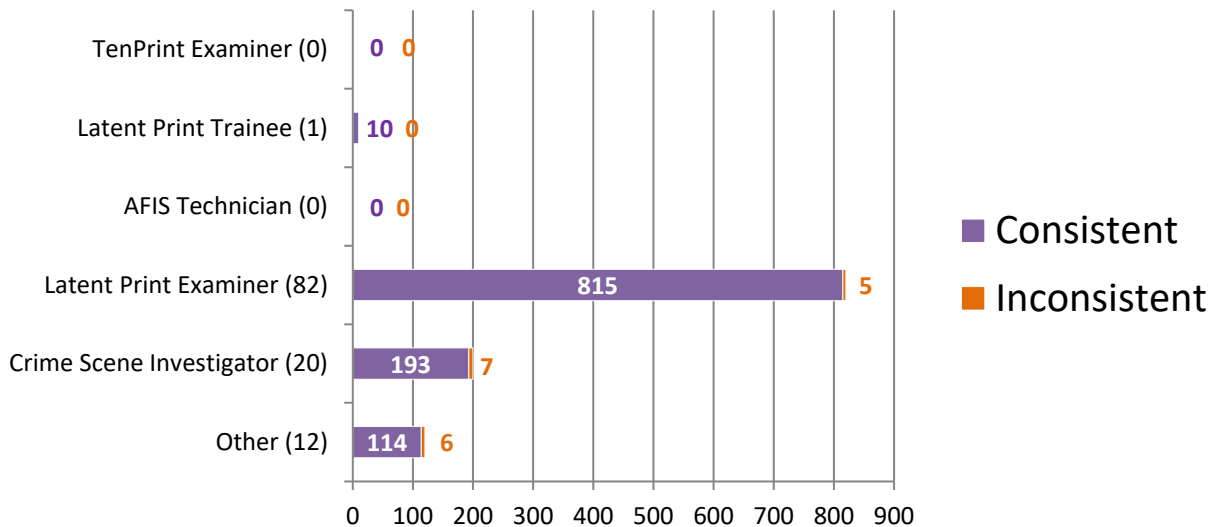
Appendix 6

Percentage of Participants Based on Primary Job Position



- | | |
|---------------------------------|------------------------------|
| ■ Tenprint Examiner (0) | ■ Latent Print Trainee (1) |
| ■ AFIS Technician (0) | ■ Latent Print Examiner (82) |
| ■ Crime Scene Investigator (20) | ■ Other (12) |

Consistent vs Inconsistent Responses Based on Primary Job Position

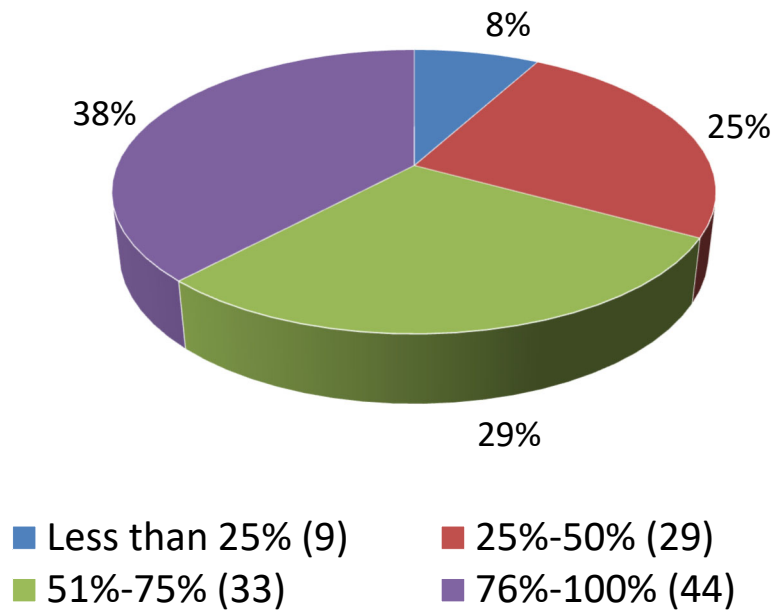


*Numerical values shown are based on **115 participant submissions, each with 10 responses, equaling 1,150 total responses.**

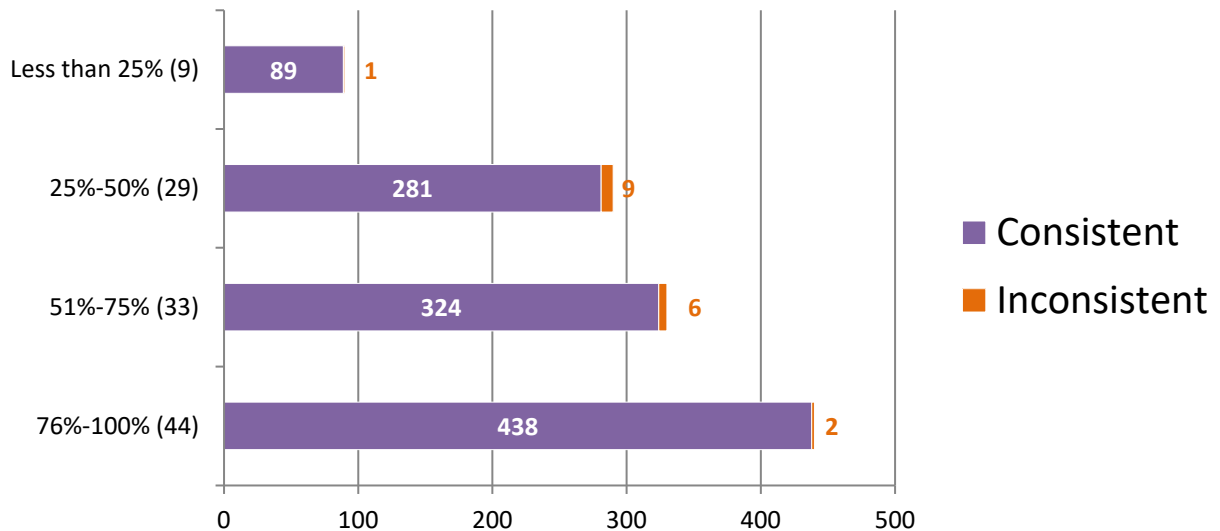
*For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Appendix 7

Percentage of Participants Based on Time Devoted to Latent Print Casework



Consistent vs Inconsistent Responses Based on Time Devoted to Latent Print Casework

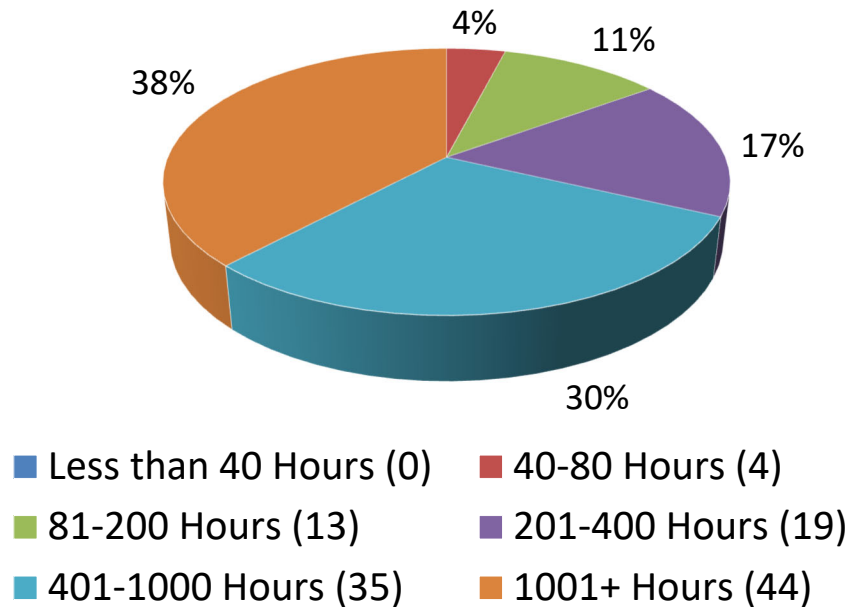


*Numerical values shown are based on **115 participant submissions, each with 10 responses, equaling 1,150 total responses.**

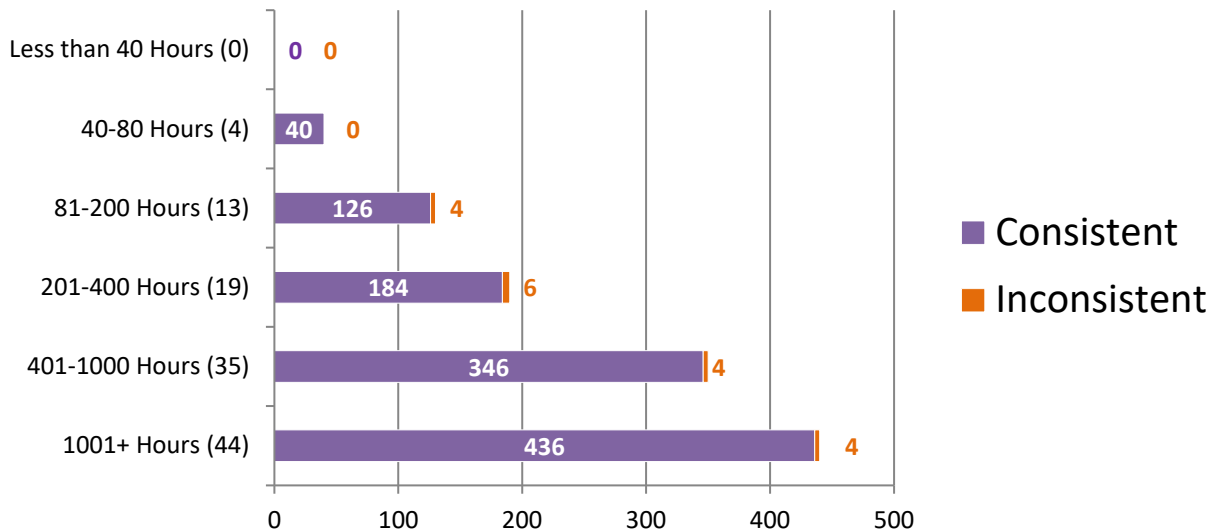
*For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Appendix 8

Percentage of Participants Based on Hours of Latent Print Training Completed



Consistent vs Inconsistent Responses Based on Hours of Latent Print Training Completed

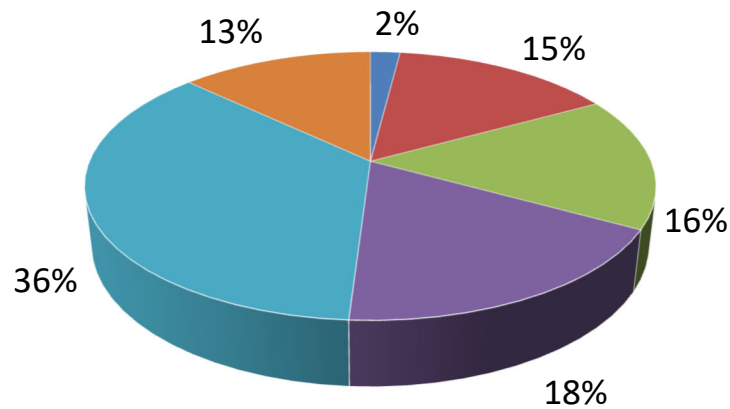


*Numerical values shown are based on **115 participant submissions, each with 10 responses, equaling 1,150 total responses.**

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

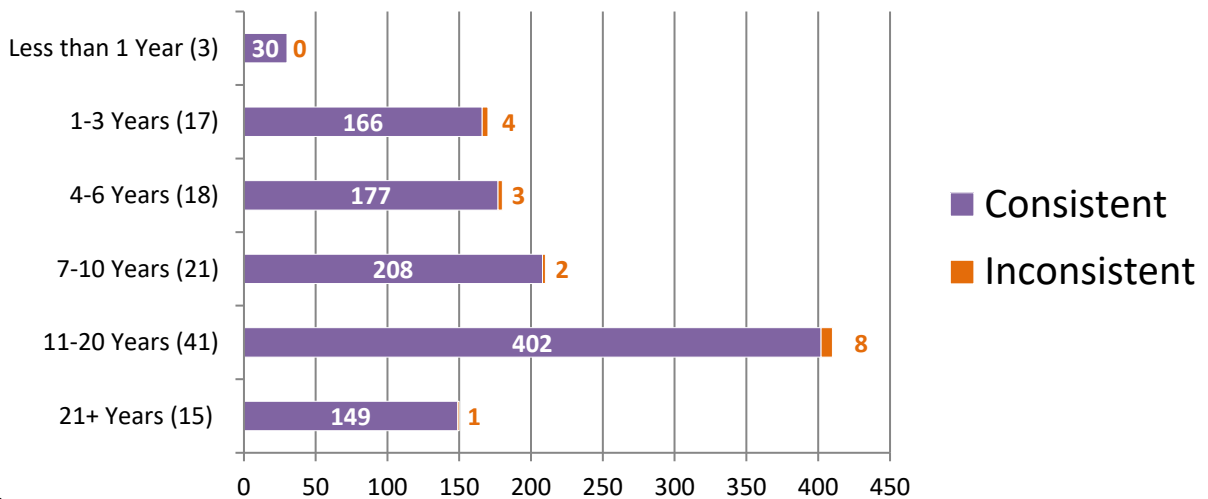
Appendix 9

Percentage of Participants Based on Years of Experience in Latent Print Examination



■ Less than 1 Year (3) ■ 1-3 Years (17) ■ 4-6 Years (18)
■ 7-10 Years (21) ■ 11-20 Years (41) ■ 21+ Years (15)

Consistent vs Inconsistent Responses Based on Years of Experience in Latent Print Examinations

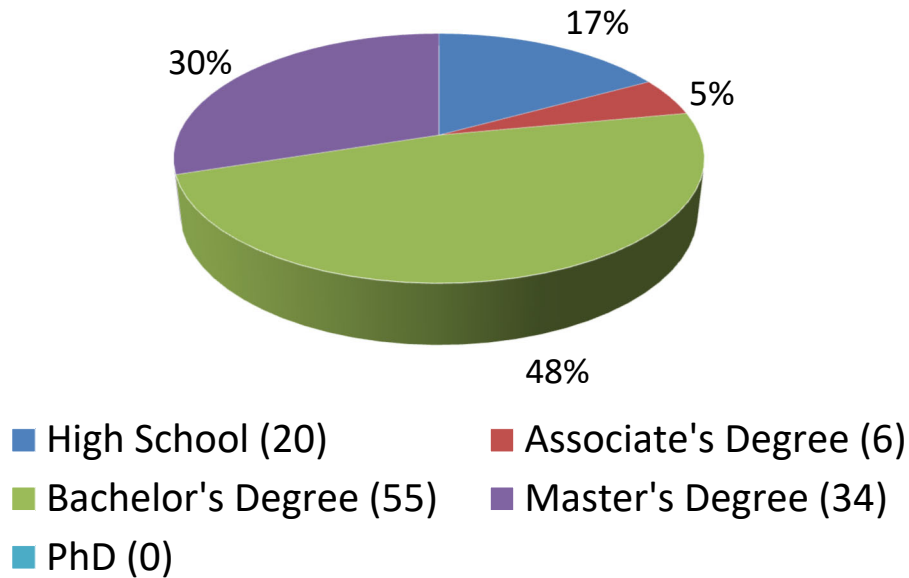


*Numerical values shown are based on **115 participant submissions, each with 10 responses, equaling 1,150 total responses.**

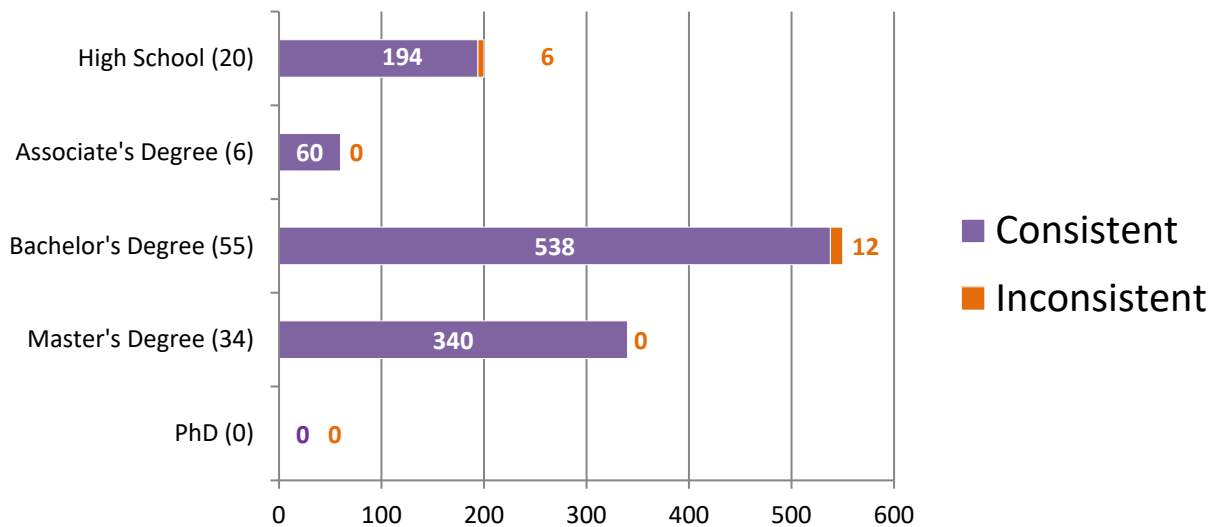
*For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Appendix 10

Percentage of Participants Based on Highest Level of Education Completed



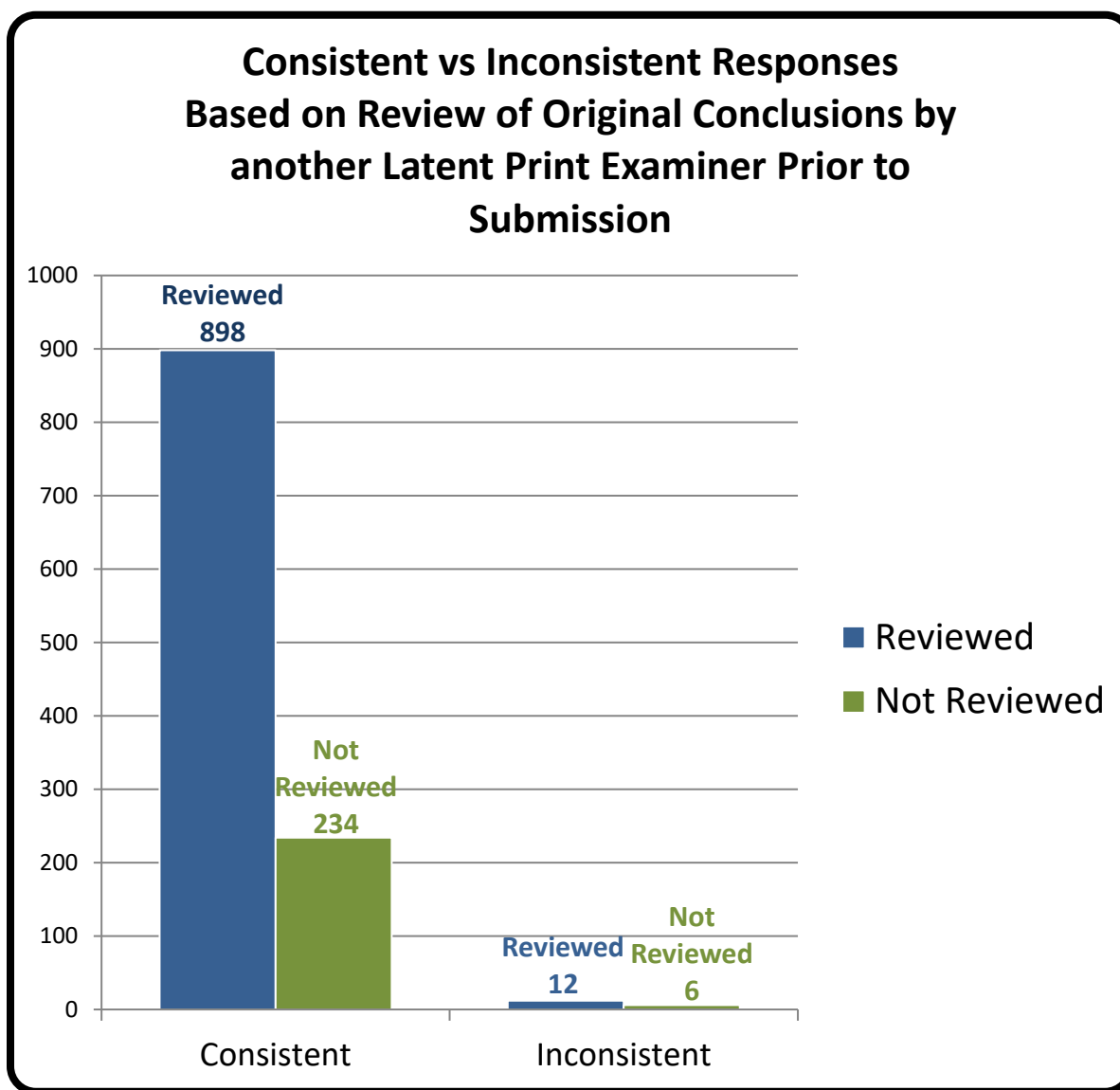
Consistent vs Inconsistent Responses Based on Highest Level of Education Completed



*Numerical values shown are based on **115 participant submissions, each with 10 responses, equaling 1,150 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 **115 participant submissions, each with 10 responses, equaling 1,150 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

Latent Print #	L-1	L-2	L-3	L-4	L-5	L-6	L-7	L-8	L-9	L-10
Assigned Values	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
7681I21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
7765N21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
2076W21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
4896B21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
2232N21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
4766R21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
2632E21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
3868B21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
8114H21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
8614I21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
4401P21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
3110S21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
3026M21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
113E21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
9916P21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP

TEST CODE

TEST CODE	2488X21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
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	2028V21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
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	185R21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	2199B21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	1629J21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
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	5948I21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	1892B21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
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	8338N21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	4967W21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	11M21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
3451X21101	ID K-1 LI	INC	INC	INC	EXC	INC	EXC	ID K-3 RP	EXC	ID K-1 LP	
3710X21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP	

TEST CODE	2011H21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	6660L21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	6668S21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	7004G21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	2400Q21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	5337I21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	7221A21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	7300E21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	4590G21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	2992F21101	EXC	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	5654I21101	ID K-1 LI	ID K-1 LT	EXC	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	6521V21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	5196D21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	9827R21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	2031H21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	9206R21101	EXC	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	8101G21101	ID K-3 RT	ID K-1 LT	ID K-4 RT	ID K-1 LI	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
3384N21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP	

TEST CODE	471F21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	26M21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	6575Y21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	9779D21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	8527W21101	ID K-1 LI	ID K-1 LT	ID K-1 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	2010B21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	6141R21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	7422I21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	8500R21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
	6989R21101	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP

Totals

Latent Print #	L-1	L-2	L-3	L-4	L-5	L-6	L-7	L-8	L-9	L-10
Assigned Values	ID K-1 LI	ID K-1 LT	ID K-4 RT	ID K-3 RT	EXC	ID K-4 RM	EXC	ID K-3 RP	EXC	ID K-1 LP
Consistent Responses	111	112	112	110	115	114	115	114	114	115
Inconsistent Responses	4	3	3	5	0	1	0	1	1	0
Percentage of Consistent Responses	97%	97%	97%	96%	100%	99%	100%	99%	99%	100%

Participant's Additional Comments

Test Code	Comments
6573O21101	The degree of difficulty on this test was extremely high on some of these comparisons. Especially the ones on the tape. I took the newly revamped Re-cert test a month ago and it was difficult. This test was harder than that.
4744D21101	I appreciate that all of the latent prints appear to be in their original form and don't appear to have been cropped or altered after the fact.
6502R21101	According to the lab's SOPs L-2 would have been deemed not suitable for comparison in casework due to the lack of clarity, distortion, and very low number of minutiae, of which none of the minutiae are clear or discriminating. When forced to provide a conclusion for the purposes of this proficiency test, the lab's conclusion is inconclusive due to the inability to identify or exclude.
4765K21101	I felt it was a good test, but there were two prints, you know which ones, that I would probably not go to court due to suitability.
7446U21101	L-4, inconclusive. Not sufficient ridge detail for identification. Need more minutia.
4874L21101	Print was identifiable but did not match any known Latent L-4 Print was identifiable but did not match any known Latent L-9
3451X21101	L-2 - Distortion above core, possible double tap, unclear what was occurring in core area possibly due to texture of surface. L-3 - Insufficient detail and poor quality for ID L-4 - Insufficient detail for ID, need better exemplars as well. L-6 - Need better exemplars
5654I21101	Good test. Please add finger numbers on the entry portal to reduce the chance of a clerical error.
6575Y21101	Fair test. Quality of latents and knowns is fantastic. Thanks for that.
6141R21101	L-4 According to our procedures the number of the minutiae visible on the Latent print L-4 is below the minimum which is required to allow a definite conclusion

Manufacturer's Additional Observations

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

1. A total of one hundred fifteen (115) participants representing fifty-nine (59) agencies/entities submitted responses to test 21101. Of those fifty-nine (59) agencies, a total of nine (9) agencies submitted responses inconsistent with the assigned values.
2. A total of eighteen (18) inconsistent responses were submitted and all eighteen (18) inconsistent responses were submitted by examiners who were not IAI certified.
3. There were only six (6) categories that had no inconsistent responses, being an IAI certified examiner, the job position of latent print trainee, amount of training being less than 40 hours, experience less than 1 year, and having an associate's degree or master's degree. It should also be noted here that some of these categories only had a few participants responding.
4. Of those having their work reviewed prior to submitting their results, they were found to have had more inconsistent answers, twelve (12), than those who did not have their work reviewed, six (6), prior to submitting their results. However, those labs having their work reviewed made up 80% of the participants and only 1% inconsistent responses versus those labs not having their work reviewed made up 20% of the participants and had a 2% inconsistent responses.
5. Of the eighteen (18) inconsistent responses submitted nine (9) were inconclusive, three (3) were erroneous exclusions, and six (6) were either administrative or erroneous identifications.
6. There were 50 accredited agencies representing 95 respondents and five (5) inconsistent responses (< than 1% inconsistent) and eleven (11) non-accredited agencies representing 20 respondents and thirteen (13) inconsistent responses (6% Inconsistent rate).

Authorized by: Ron Smith, President
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