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Summary Report

Spring 2016 Tenprint Proficiency Test #16201

Issued: June 28, 2016

On March 7, 2016, Ron Smith and Associates, Inc. (RS&A) shipped the 2016 Spring Tenprint Proficiency Test #16201. Participants were required to submit their responses no later than May 9, 2016, in order for them to be included in this summary report.

A total of 5 tests were ordered and shipped, with all participants returning their responses. The test was provided in both digital and hard copy format and included twenty pattern recognition prints, three sets of known finger prints for comparison as a “pre-sentencing pack”, three single-inked latent prints on pawn tickets for comparison to one another, and five side-by-side “AFIS” comparisons.

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 and provide more meaningful statistical results by analyzing the submitted responses in relationship to the demographics obtained from each of the examiners participating in this proficiency test. All results and statistics for Test #16201 will be outlined through graphs and charts found in the remainder of this report.

Prior to distribution of this test, all of the expected responses for **Part 4: AFIS Side-by-Side Comparisons** were determined 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 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.

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 Ron Smith, Proficiency Testing Coordinator, at testing@ronsmithandassociates.com or call toll free at 1-866-832-6772.

Appendix 1

Test Manufacturer's Information

Spring 2016 Tenprint Proficiency Test #16201

This test consisted of four parts: pattern recognition, comparison of multiple tenprint cards, comparison of single inked fingerprints, and side-by-side comparisons of unknown to known fingerprints. The assigned values for each part of the test are as follows:

Part 1: Pattern Recognition

| IMAGE # | PATTERN TYPE |
|----------------|---------------------|
| 1 | Whorl |
| 2 | Right Slant Loop |
| 3 | Arch |
| 4 | Whorl |
| 5 | Left Slant Loop |
| 6 | Right Slant Loop |
| 7 | Arch |
| 8 | Whorl |
| 9 | Whorl |
| 10 | Left Slant Loop |
| 11 | Left Slant Loop |
| 12 | Arch |
| 13 | Left Slant Loop |
| 14 | Whorl |
| 15 | Right Slant Loop |
| 16 | Right Slant Loop |
| 17 | Whorl |
| 18 | Right Slant Loop |
| 19 | Arch |
| 20 | Left Slant Loop |

Part 2: Pre-Sentencing Packet

The following tenprint cards bear the fingerprints of the same individual:

“Most Recent Conviction”, “Prior Conviction #1”, and “Prior Conviction #2”

Part 3: Pawn Tickets

The following pawn slips contain fingerprints that were left by the same finger:

“Pawn Slip #1” and “Pawn Slip #3”

Part 4: AFIS Side-by-Side Comparisons

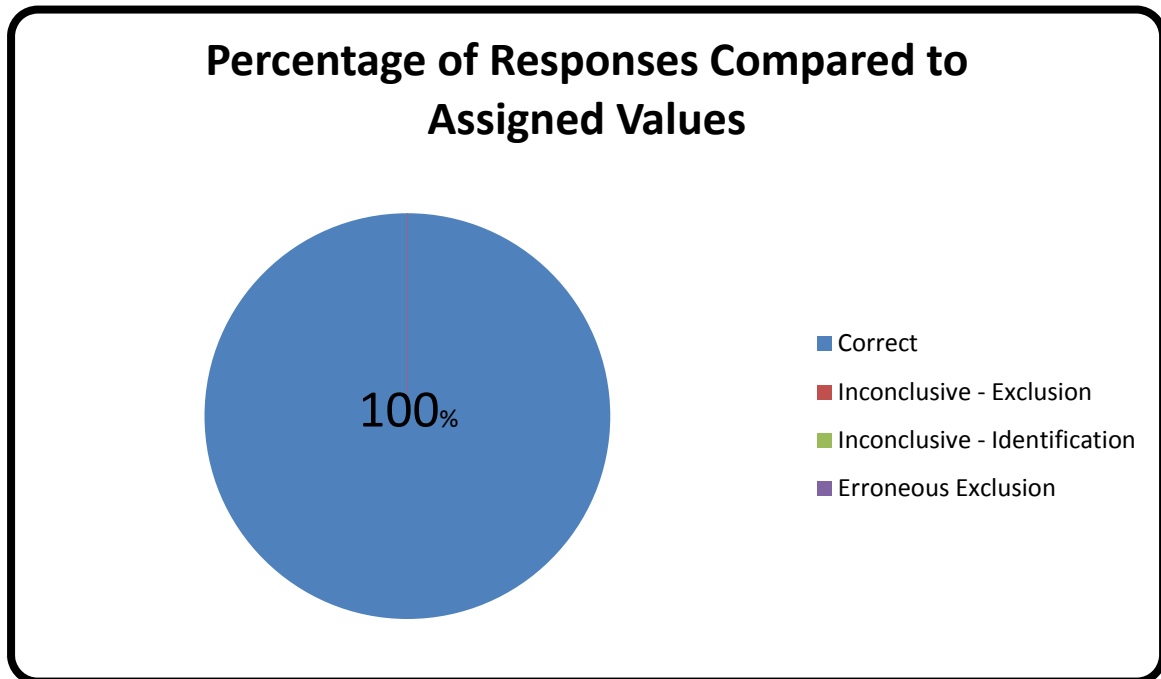
| COMPARISON # | CONCLUSION |
|---------------------|-------------------|
| 1 | Exclusion |
| 2 | Exclusion |
| 3 | Identification |
| 4 | Identification |
| 5 | Identification |

The test was provided in hard copy photograph and/or digital image formats. The assigned values were determined through the ground truth information and verified through unanimous agreement during pre-distribution testing.

Individual reports will be provided to participants on or before June 3, 2016. The final summary report for this test will be posted on the Ron Smith & Associates website at <http://www.ronsmithandassociates.com/proficiency/tenprint.html> by Mid-June 2016.

For questions or further information, contact our Proficiency Test Coordinator, Ron Smith, at testing@ronsmithandassociates.com.

Appendix 2

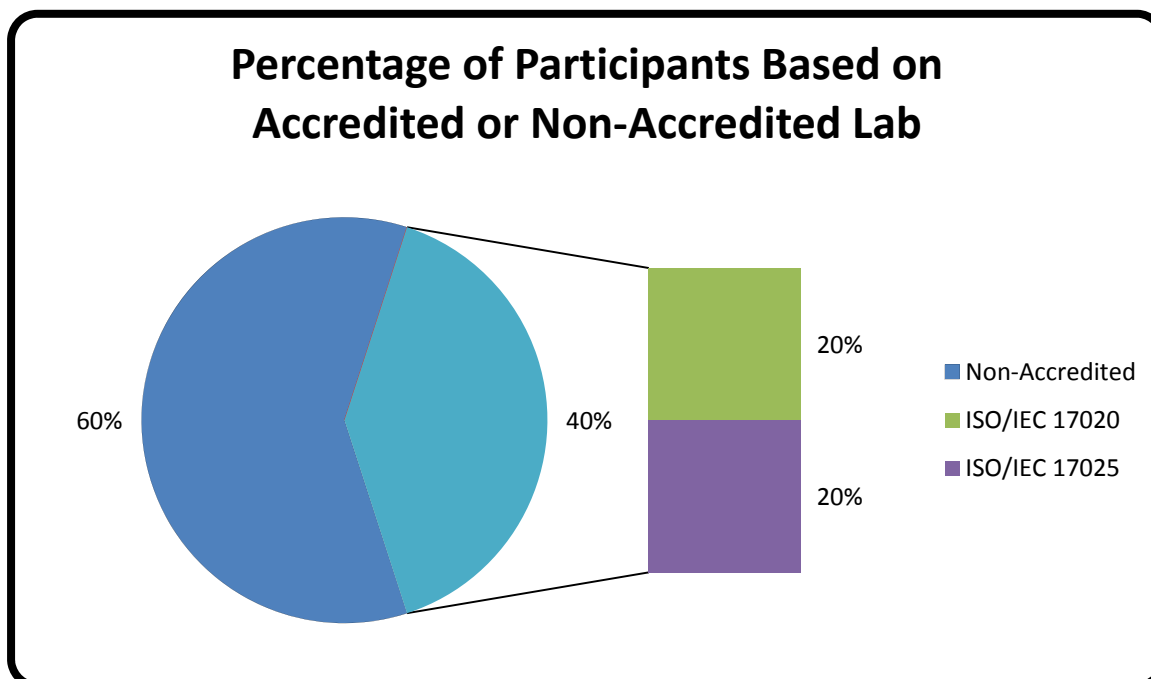


With 5 reporting participants and 27 questions (20 in Part 1, 1 in Part 2, 1 in Part 3, and 5 in Part 4), a total of 135 individual responses were received. Of these, all 135 were consistent with the assigned values (100 %).

This left 0 responses which were not consistent with the assigned values.

| | Percentage Correct | Percentage of Erroneous Exclusions | Percentage of Inconclusive (Exclusion) | Percentage of Inconclusive (Identification) |
|---------------------------------|--------------------|------------------------------------|--|---|
| 5 Participants 135 Responses | 100% | 0% | 0% | 0% |

Appendix 3



There were a total of 2 participants from accredited laboratories.

One participant reported their lab as being accredited to ISO/IEC 17020 standards. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned values (100 %).

One participant reported their lab as being accredited to ISO/IEC 17025 standards. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned values (100 %).

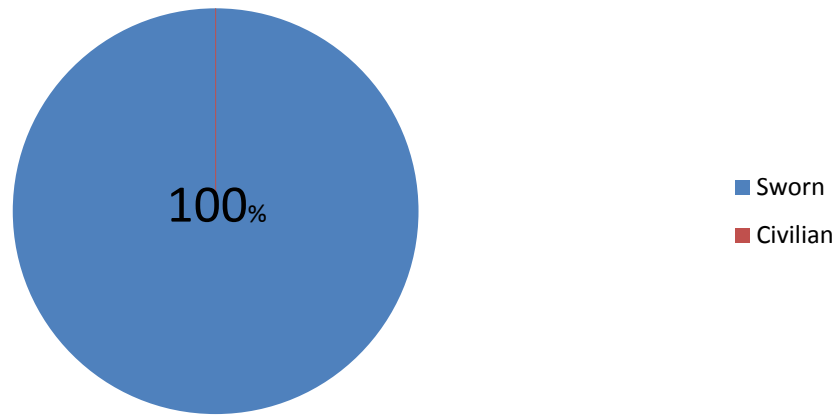
There were a total of 3 participants from non-accredited laboratories. These participants submitted a total of 81 responses. Of these, 81 responses were consistent with the assigned values (100 %).

This left 0 responses which were not consistent with the assigned values.

| | Percentage Correct | Percentage of Erroneous Exclusions | Percentage of Inconclusive (Exclusion) | Percentage of Inconclusive (Identification) |
|---|--------------------|------------------------------------|--|---|
| ISO/IEC 17020 1 Participants 27 Responses | 100% | 0% | 0% | 0% |
| ISO/IEC 17025 1 Participants 27 Responses | 100% | 0% | 0% | 0% |
| Non-Accredited 3 Participants 81 Responses | 100% | 0% | 0% | 0% |

Appendix 4

Percentage of Participants Based on Sworn or Civilian Employee



There were a total of 0 participants who reported that they were employed in sworn law enforcement positions.

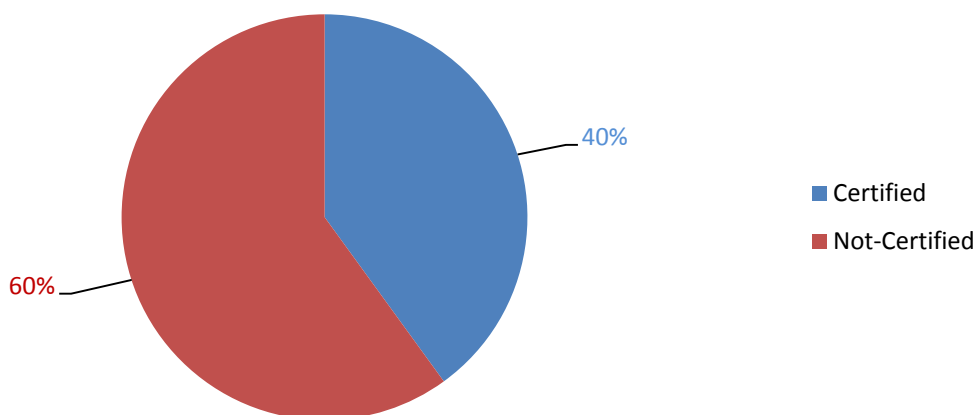
There were a total of 5 participants who reported that they were employed in a civilian capacity. These participants submitted a total of 135 responses. Of these, all 135 responses were consistent with the assigned value (100 %).

This left 0 responses which were not consistent with the assigned values.

| | Percentage Correct | Percentage of Erroneous Exclusions | Percentage of Inconclusive (Exclusion) | Percentage of Inconclusive (Identification) |
|--|--------------------|------------------------------------|--|---|
| Sworn | N/A | N/A | N/A | N/A |
| Civilian 5 Participants 135 Responses | 100% | 0% | 0% | 0% |

Appendix 5

Percentage of Participants Based on IAI Certification in Tenprint



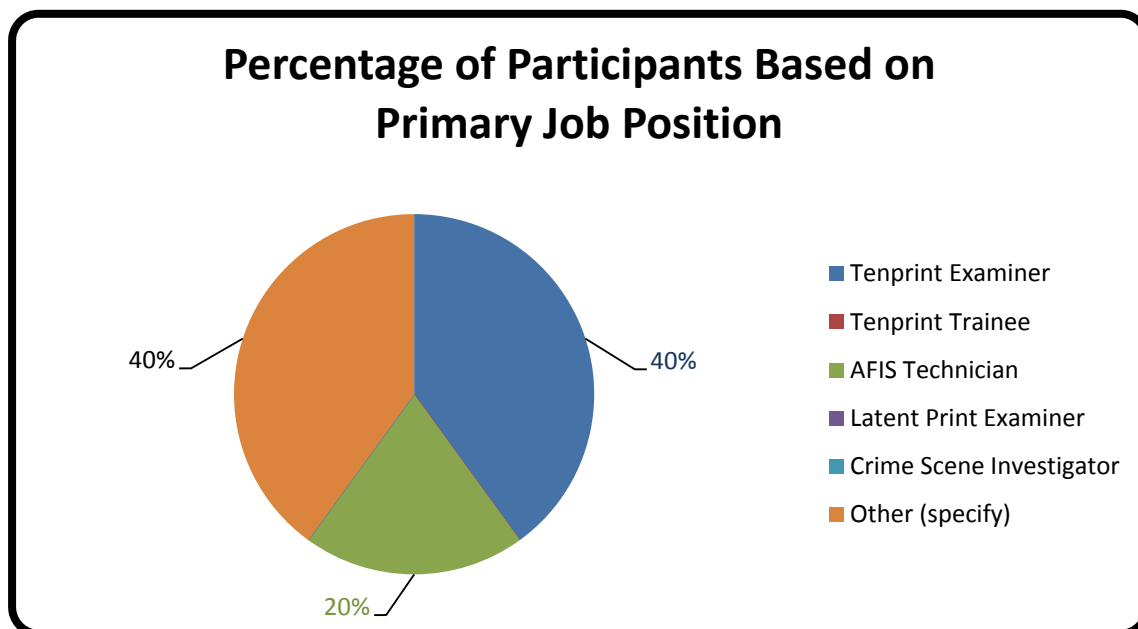
There were a total of 2 participants who reported that they had been Certified as Tenprint Examiners by the International Association for Identification. These participants submitted a total of 54 responses. Of these, all 54 responses were consistent with the assigned value (100 %).

There were a total of 3 participants who reported that they were not Certified as Tenprint Examiners by the International Association for Identification. These participants submitted a total of 81 responses. Of these, 81 responses were consistent with the assigned values (100 %).

This left 0 responses which were not consistent with the assigned values.

| | Percentage Correct | Percentage of Erroneous Exclusions | Percentage of Inconclusive (Exclusion) | Percentage of Inconclusive (Identification) |
|--|--------------------|------------------------------------|--|---|
| Certified 2 Participants 54 Responses | 100% | 0% | 0% | 0% |
| Not-Certified 3 Participants 81 Responses | 100% | 0% | 0% | 0% |

Appendix 6



There were a total of 2 participants who reported that they held the primary job position of Tenprint Examiners. These participants submitted a total of 54 responses. Of these, all 54 responses were consistent with the assigned value (100 %).

There was 1 participant who reported that they held the primary job position of AFIS technician. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned value (100 %).

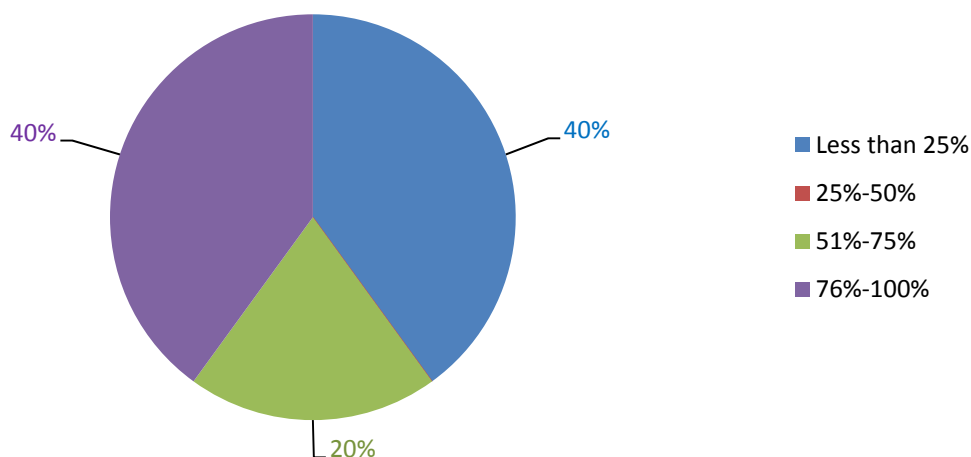
There were a total of 2 participants who reported that they held a primary job position in the “Other” category (participants specified these positions as being AFIS Program Manager and Supervisor/Manager Tenprints). These participants submitted a total of 54 responses. Of these, all 54 responses were consistent with the assigned value (100 %).

This left 0 responses which were not consistent with the assigned values.

| | Percentage Correct | Percentage of Erroneous Exclusions | Percentage of Inconclusive (Exclusion) | Percentage of Inconclusive (Identification) |
|--|--------------------|------------------------------------|--|---|
| Tenprint Examiner 2 Participants 54 Responses | 100% | 0% | 0% | 0% |
| Tenprint Trainee | N/A | N/A | N/A | N/A |
| AFIS Technician 1 Participant 27 Responses | 100% | 0% | 0% | 0% |
| Latent Print Examiner | N/A | N/A | N/A | N/A |
| Crime Scene Investigator | N/A | N/A | N/A | N/A |
| Other (specify) 2 Participants 54 Responses | 100% | 0% | 0% | 0% |

Appendix 7

Percentage of Participants Based on Time Devoted to Tenprint Casework



There were a total of 2 participants who reported that they devoted less than 25% of their time to tenprint casework. These participants submitted a total of 54 responses. Of these, all 54 responses were consistent with the assigned value (100 %).

There was 1 participant who reported that they devoted 51%-75% of their time to tenprint casework. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned value (100 %).

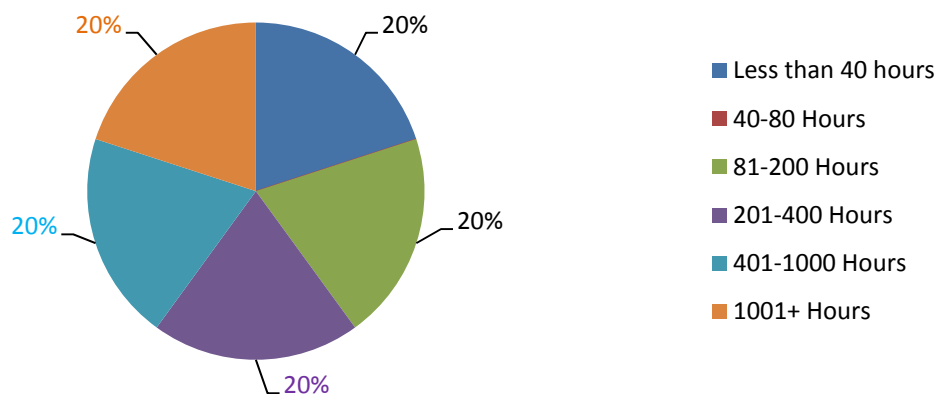
There were a total of 2 participants who reported that they devoted 76%-100% of their time to tenprint casework. These participants submitted a total of 54 responses. Of these, all 54 responses were consistent with the assigned value (100 %).

This left 0 responses which were not consistent with the assigned values.

| | Percentage Correct | Percentage of Erroneous Exclusions | Percentage of Inconclusive (Exclusion) | Percentage of Inconclusive (Identification) |
|--|--------------------|------------------------------------|--|---|
| Less than 25% 2 Participants 54 Responses | 100% | 0% | 0% | 0% |
| 25%-50% | N/A | N/A | N/A | N/A |
| 51%-75% 1 Participants 27 Responses | 100% | 0% | 0% | 0% |
| 76%-100% 2 Participant 54 Responses | 100% | 0% | 0% | 0% |

Appendix 8

Percentage of Participants Based on Hours of Training



There was 1 participant who reported having less than 40 hours of tenprint training. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned value (100 %).

There was 1 participant who reported having 81-200 hours of tenprint training. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned value (100 %).

There was 1 participant who reported having 201-400 hours of tenprint training. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned value (100 %).

There was 1 participant who reported having 401-1000 hours of tenprint training. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned value (100 %).

There was 1 participant who reported having 1001+ hours of tenprint training. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned value (100 %).

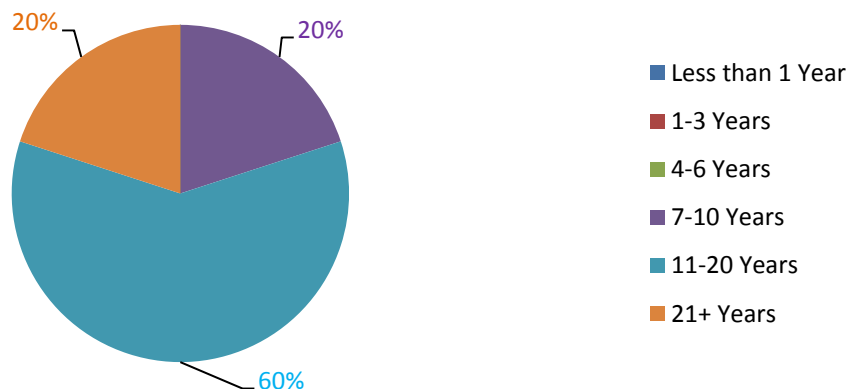
This left 0 responses which were not consistent with the assigned values.

| Years and # of Participant Responses | Percentage Correct | Percentage of Erroneous Exclusions | Percentage of Inconclusive (Exclusion) | Percentage of Inconclusive (Identification) |
|--|--------------------|------------------------------------|--|---|
| Less than 40 Hours 1 Participants 27 Responses | 100% | 0% | 0% | 0% |
| 40-80 Hours | N/A | N/A | N/A | N/A |

| | | | | |
|---|------|----|----|----|
| 81-200 Hours 1 Participants 27 Responses | 100% | 0% | 0% | 0% |
| 201-400 Hours 1 Participants 27 Responses | 100% | 0% | 0% | 0% |
| 401-1000 Hours 1 Participants 27 Responses | 100% | 0% | 0% | 0% |
| 1001+ Hours 1 Participants 27 Responses | 100% | 0% | 0% | 0% |

Appendix 9

Percentage of Participants Based on Years of Experience



There was 1 participant who reported having 7-10 years of experience conducting tenprint examinations. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned value (100 %).

There were a total of 3 participants who reported that they have 11-20 years of experience conducting tenprint examinations. These participants submitted a total of 81 responses. Of these, all 81 responses were consistent with the assigned value (100 %).

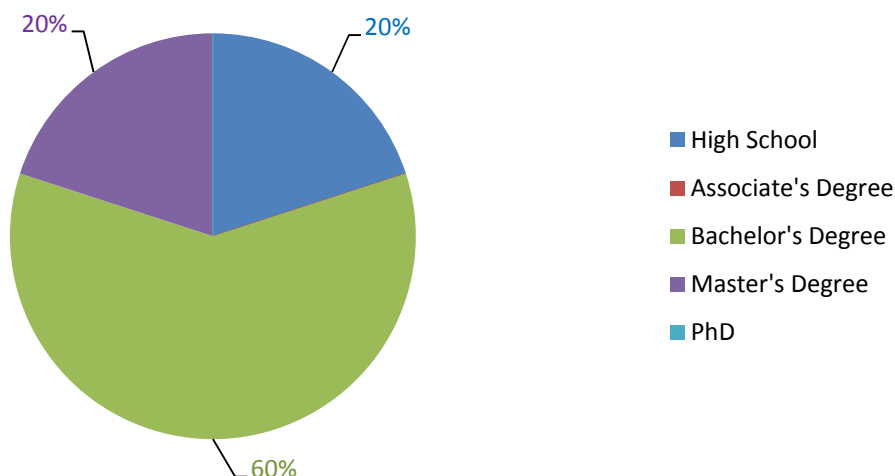
There was 1 participant who reported having 21+ years of experience conducting tenprint examinations. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned value (100 %).

This left 0 responses which were not consistent with the assigned values.

| Years and # of Participant Responses | Percentage Correct | Percentage of Erroneous Exclusions | Percentage of Inconclusive (Exclusion) | Percentage of Inconclusive (Identification) |
|--|--------------------|------------------------------------|--|---|
| Less Than 1 Year | N/A | N/A | N/A | N/A |
| 1-3 Years | N/A | N/A | N/A | N/A |
| 4-6 Years | N/A | N/A | N/A | N/A |
| 7-10 Years 1 Participants 27 Responses | 100% | 0% | 0% | 0% |
| 11-20 Years 3 Participants 81 Responses | 100% | 0% | 0% | 0% |
| 21 + Years 1 Participants 27 Responses | 100% | 0% | 0% | 0% |

Appendix 10

Percentage of Participants Based on Education Level



There was 1 participant who reported having completed High School. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned value (100 %).

There were a total of 3 participants who reported that they have completed a Bachelor's Degree. These participants submitted a total of 81 responses. Of these, all 81 responses were consistent with the assigned value (100 %).

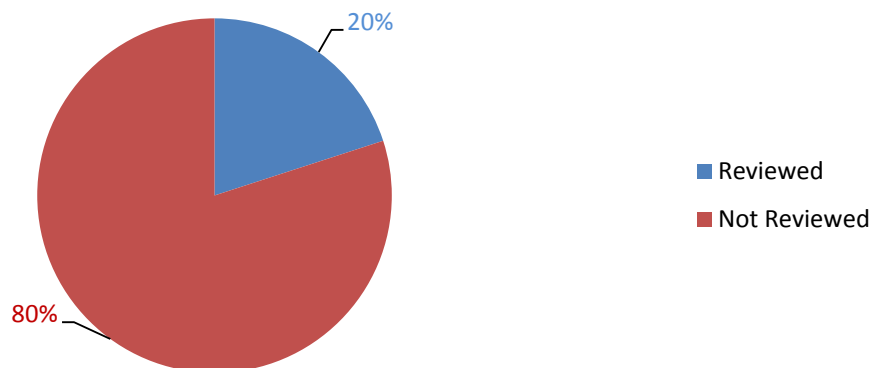
There was 1 participant who reported having completed a Master's Degree. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned value (100 %).

This left 0 responses which were not consistent with the assigned values.

| | Percentage Correct | Percentage of Erroneous Exclusions | Percentage of Inconclusive (Exclusion) | Percentage of Inconclusive (Identification) |
|--|--------------------|------------------------------------|--|---|
| High School 1 Participant 27 Responses | 100% | 0% | 0% | 0% |
| Associate's Degree | N/A | N/A | N/A | N/A |
| Bachelor's Degree 3 Participants 81 Responses | 100% | 0% | 0% | 0% |
| Master's Degree 1 Participant 27 Responses | 100% | 0% | 0% | 0% |
| PhD | N/A | N/A | N/A | N/A |

Appendix 11

Percentage of Participants Based on Review of Original Conclusions Prior to Submission



There was 1 participant who reported having their conclusions reviewed by another examiner. This participant submitted a total of 27 responses. Of these, all 27 responses were consistent with the assigned value (100 %).

There were a total of 4 participants who reported not having their conclusions reviewed by another examiner. This participant submitted a total of 108 responses. Of these, all 108 responses were consistent with the assigned value (100 %).

This left 0 responses which were not consistent with the assigned values.

| | Percentage Correct | Percentage of Erroneous Exclusions | Percentage of Inconclusive (Exclusion) | Percentage of Inconclusive (Identification) |
|--|--------------------|------------------------------------|--|---|
| Reviewed 1 Participants 27 Responses | 100% | 0% | 0% | 0% |
| Not Reviewed 4 Participants 108 Responses | 100% | 0% | 0% | 0% |

Appendix 12

Participant Responses listed by Test Code

| | Part 1 | | | | | | | | | | | | | | | | | | | |
|------------------------|---------------|------------|----------|----------|------------|------------|----------|----------|----------|------------|------------|----------|------------|----------|------------|------------|----------|------------|----------|------------|
| Test Code | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| <i>Assigned Values</i> | <i>W</i> | <i>RSL</i> | <i>A</i> | <i>W</i> | <i>LSL</i> | <i>RSL</i> | <i>A</i> | <i>W</i> | <i>W</i> | <i>LSL</i> | <i>LSL</i> | <i>A</i> | <i>LSL</i> | <i>W</i> | <i>RSL</i> | <i>RSL</i> | <i>W</i> | <i>RSL</i> | <i>A</i> | <i>LSL</i> |
| 1001G16201 | W | RSL | A | W | LSL | RSL | A | W | W | LSL | LSL | A | LSL | W | RSL | RSL | W | RSL | A | LSL |
| 2568S16201 | W | RSL | A | W | LSL | RSL | A | W | W | LSL | LSL | A | LSL | W | RSL | RSL | W | RSL | A | LSL |
| 619Q16201 | W | RSL | A | W | LSL | RSL | A | W | W | LSL | LSL | A | LSL | W | RSL | RSL | W | RSL | A | LSL |
| 6267H16201 | W | RSL | A | W | LSL | RSL | A | W | W | LSL | LSL | A | LSL | W | RSL | RSL | W | RSL | A | LSL |
| 9670E16201 | W | RSL | A | W | LSL | RSL | A | W | W | LSL | LSL | A | LSL | W | RSL | RSL | W | RSL | A | LSL |

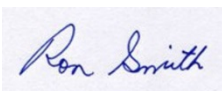
| | Part 2 | Part 3 | Part 4 | | | | |
|------------------------|-----------------------|---------------------|---------------|------------|-----------|-----------|-----------|
| Test Code | Pre-Sentencing | Pawn Tickets | 1 | 2 | 3 | 4 | 5 |
| <i>Assigned Values</i> | <i>MRC, PC1, PC2</i> | <i>PS1, PS3</i> | <i>EXC</i> | <i>EXC</i> | <i>ID</i> | <i>ID</i> | <i>ID</i> |
| 1001G16201 | MRC, PC1, PC2 | PS1, PS3 | EXC | EXC | ID | ID | ID |
| 2568S16201 | MRC, PC1, PC2 | PS1, PS3 | EXC | EXC | ID | ID | ID |
| 619Q16201 | MRC, PC1, PC2 | PS1, PS3 | EXC | EXC | ID | ID | ID |
| 6267H16201 | MRC, PC1, PC2 | PS1, PS3 | EXC | EXC | ID | ID | ID |
| 9670E16201 | MRC, PC1, PC2 | PS1, PS3 | EXC | EXC | ID | ID | ID |

Arch=A, Right Slant Loop=RSL, Left Slant Loop=LSL, Whorl=W, Most Recent Conviction=MRC, Prior Conviction #1=PC1, Prior Conviction #2=PC2, Pawn Slip #1=PS1, Pawn Slip #2=PS2, Pawn Slip #3=PS3, Identification=ID, Exclusion=EXC, Inconclusive=INC, None of the above=None

Participants' Additional Comments

| Test ID | Comments |
|------------|--|
| 2568S16201 | Liked that I had both photo quality paper images as well as digital images. I was able to do some comparisons that I felt I needed to take more time with and be able to plot the details that I wanted to. Liked that prints did become a little more challenging, but didn't feel like a latent test. I liked it overall, tested many different skills that an examiner should be proficient in to do their job effectively. |

Authorized by:



Ron Smith
President

For Further Information Proficiency Test Coordinator
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