



Ron Smith & Associates, Inc. Testing Division

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Summary Report Summer 2020 Tire Track Comparison Proficiency Test #20401 Issued: August 25, 2020

On April 20, 2020, Ron Smith and Associates, Inc. (RS&A) shipped the 2020 Summer Tire Track Comparison Proficiency Test #20401. Participants were required to submit their responses no later than July 13, 2020 in order for them to be included in this summary report.

A total of 9 tests were ordered and shipped, with 7 participants returning their responses. This test was based on 7 participant submissions, each with 4 responses, equaling 28 total responses. The test consisted of sectional photographs of known tire(s), known impressions of the tire(s), and four (4) questioned impressions.

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 of the expected responses 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 the Proficiency Testing Coordinator by emailing testing@ronsmithandassociates.com or by calling toll free at 1-866-832-6772.

Appendix 1

Test Manufacturer's Information

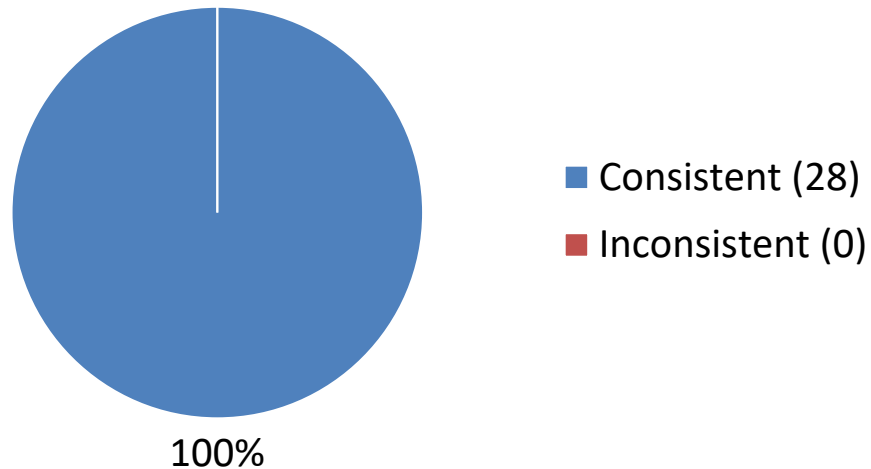
Summer 2020 Tire Track Comparison Proficiency Test #20401

This test consisted of sectional photographs of known tire(s), known impressions of the tire(s), and four (4) questioned impressions. The assigned values were determined through the ground truth information and verified through unanimous agreement during pre-distribution testing. The assigned values were as follows:

Questioned Impressions Q-#	Conclusion	Known Tire Section #
Q-1	Exclusion	
Q-2	Identification	Section F
Q-3	Identification	Section D
Q-4	Identification	Section A

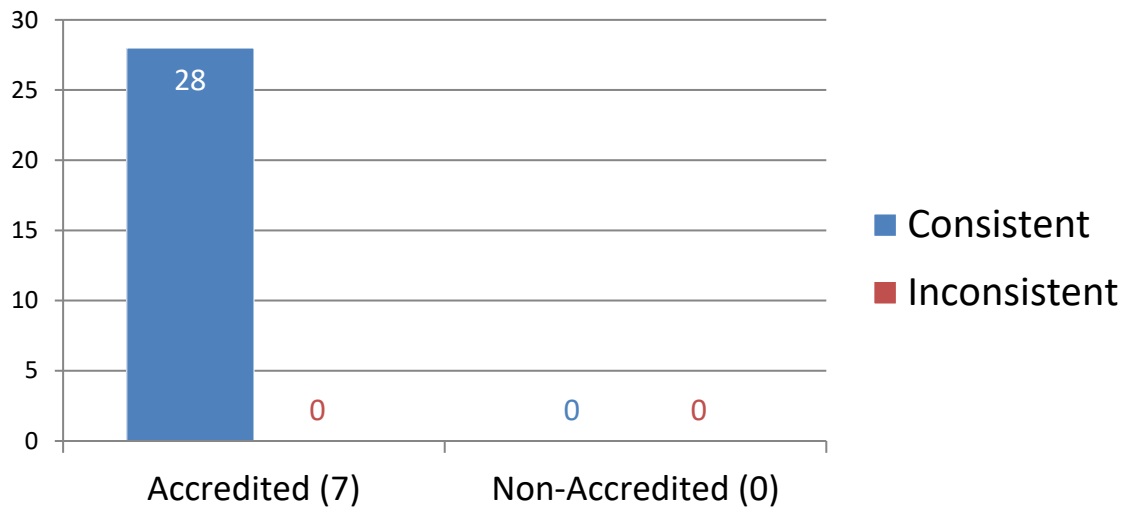
Appendix 2

Consistent vs Inconsistent Responses Compared to Assigned Values



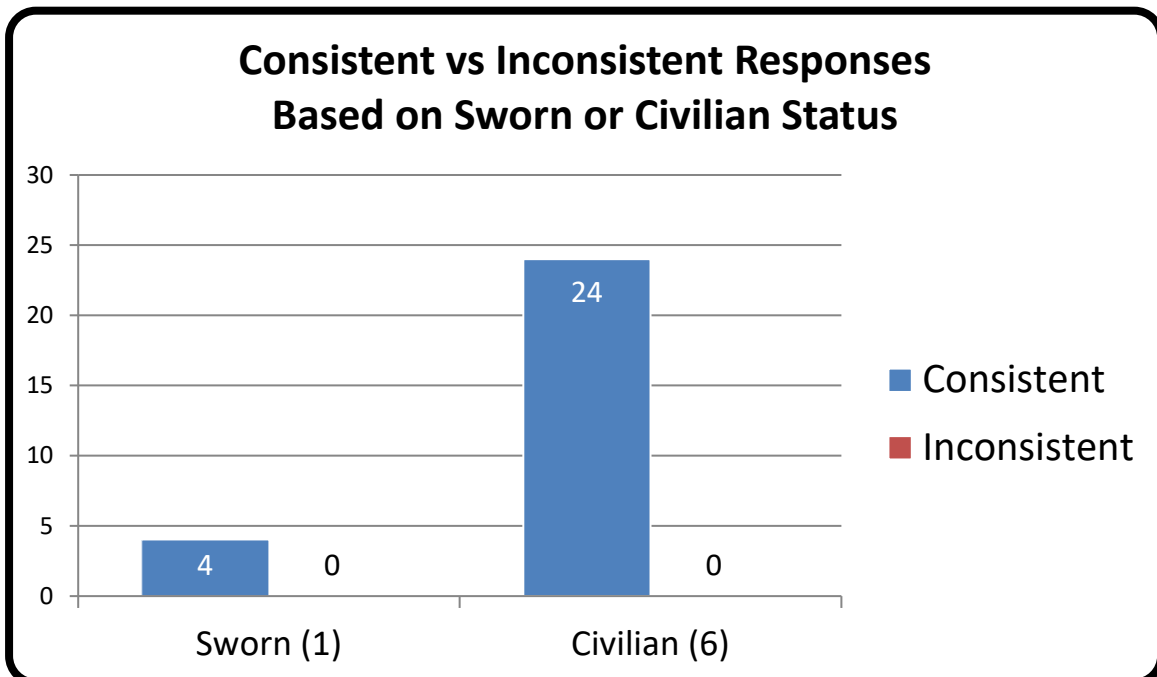
Appendix 3

Consistent vs Inconsistent Responses Based on Accreditation

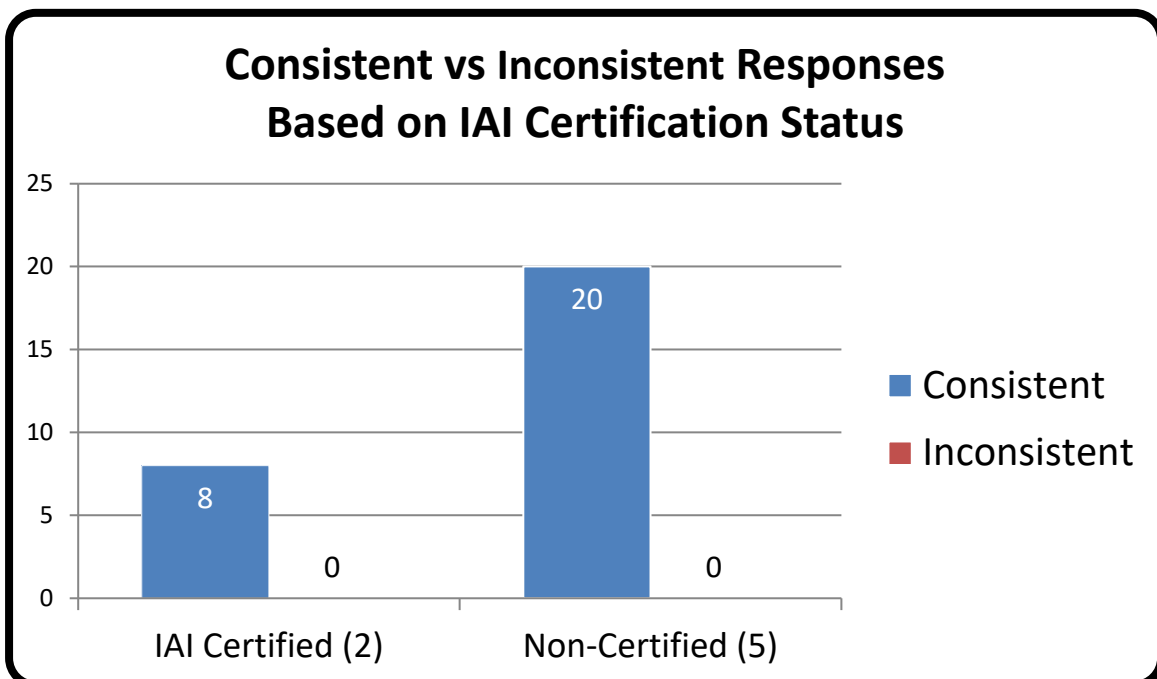


*Numerical values shown are based on **7 participant submissions, each with 4 responses, equaling 28 total responses**. *For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Appendix 4



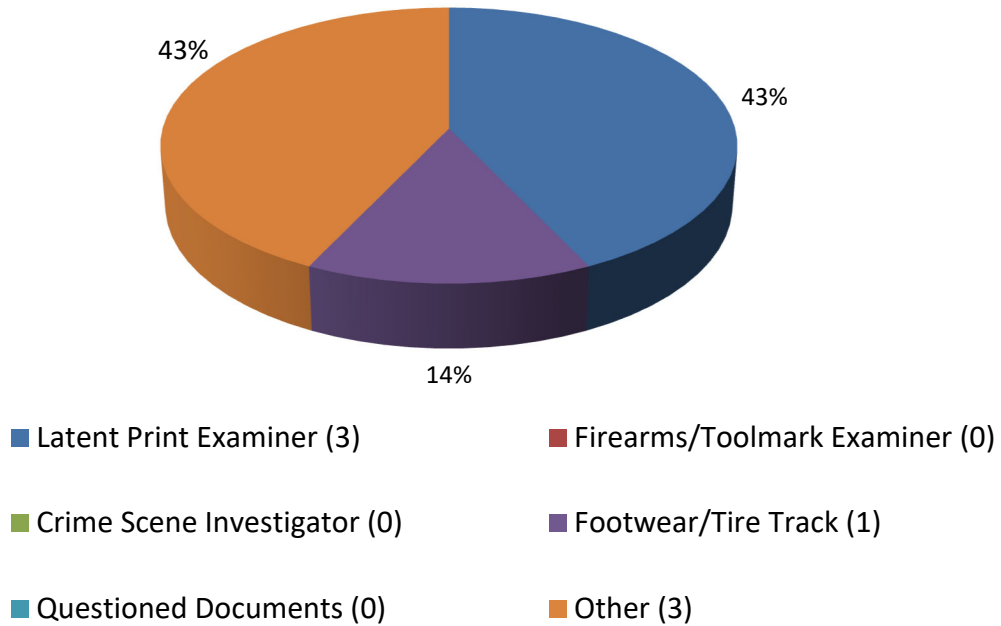
Appendix 5



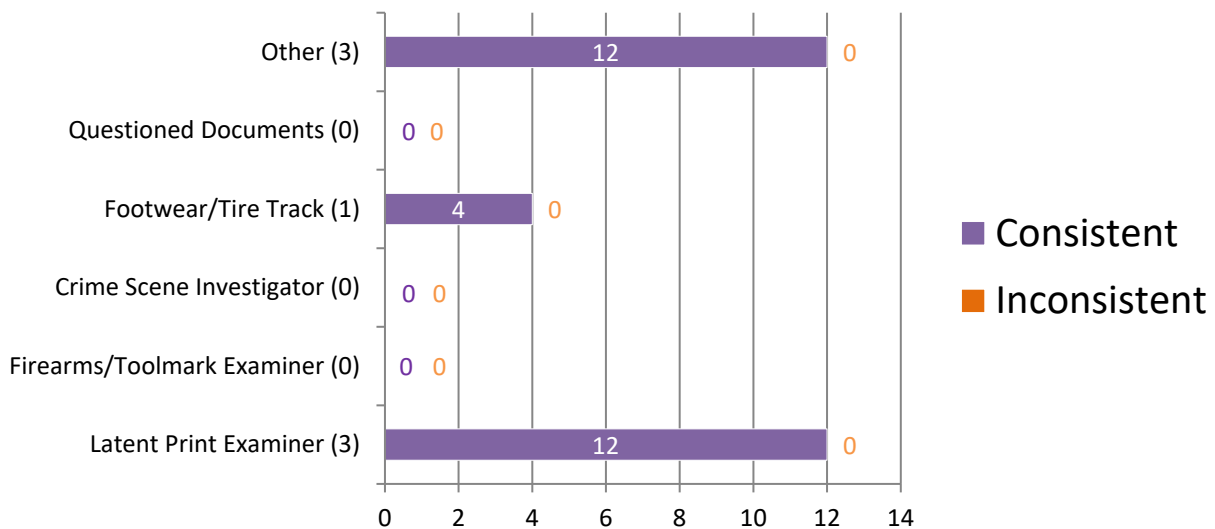
*Numerical values shown are based on 7 participant submissions, each with 4 responses, equaling 28 total responses. *For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Appendix 6

Percentage of Participants Based on Primary Job Position



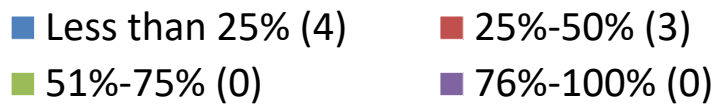
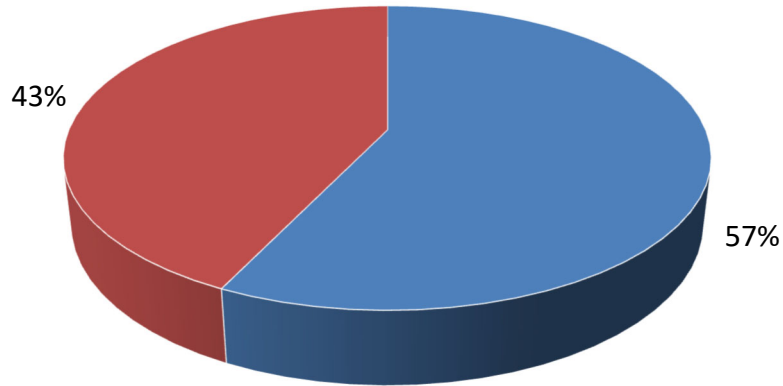
Consistent vs Inconsistent Responses Based on Primary Job Position



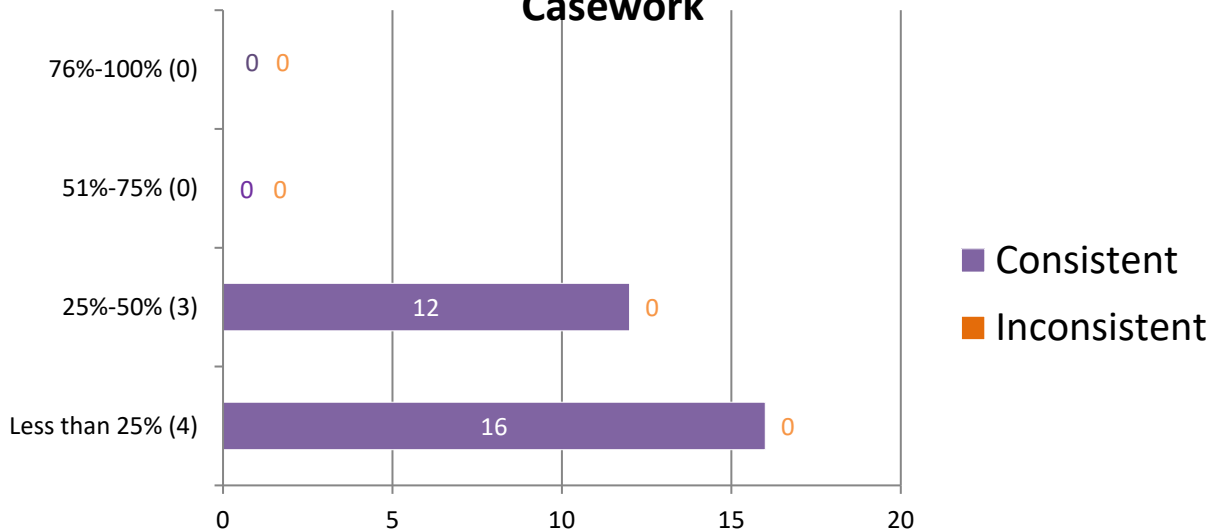
*Numerical values shown are based on **7 participant submissions, each with 4 responses, equaling 28 total responses**. *For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Appendix 7

Percentage of Participants Based on Time Devoted to Footwear/Tire Track Casework



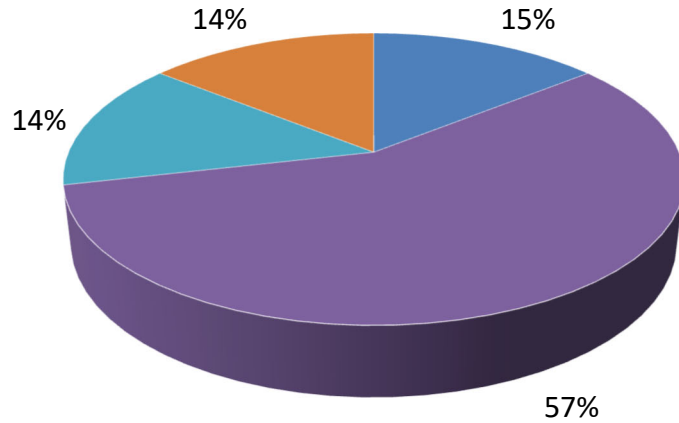
Consistent vs Inconsistent Responses Based on Time Devoted to Footwear/Tire Track Casework



*Numerical values shown are based on **7 participant submissions, each with 4 responses, equaling 28 total responses.** *For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

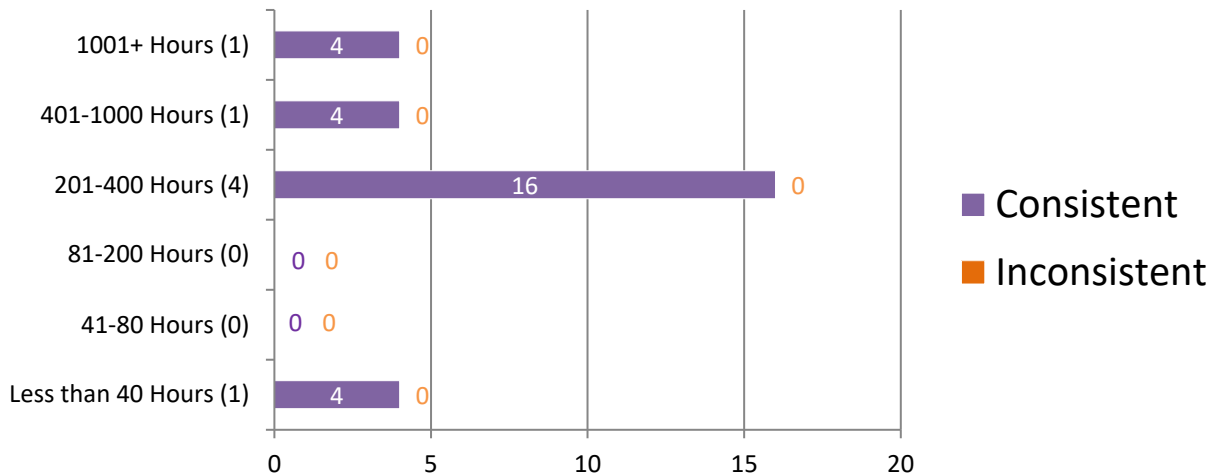
Appendix 8

Percentage of Participants Based on Hours of Footwear/Tire Track Training Completed



- Less than 40 Hours (1) ■ 41-80 Hours (0)
- 81-200 Hours (0) ■ 201-400 Hours (4)
- 401-1000 Hours (1) ■ 1001+ Hours (1)

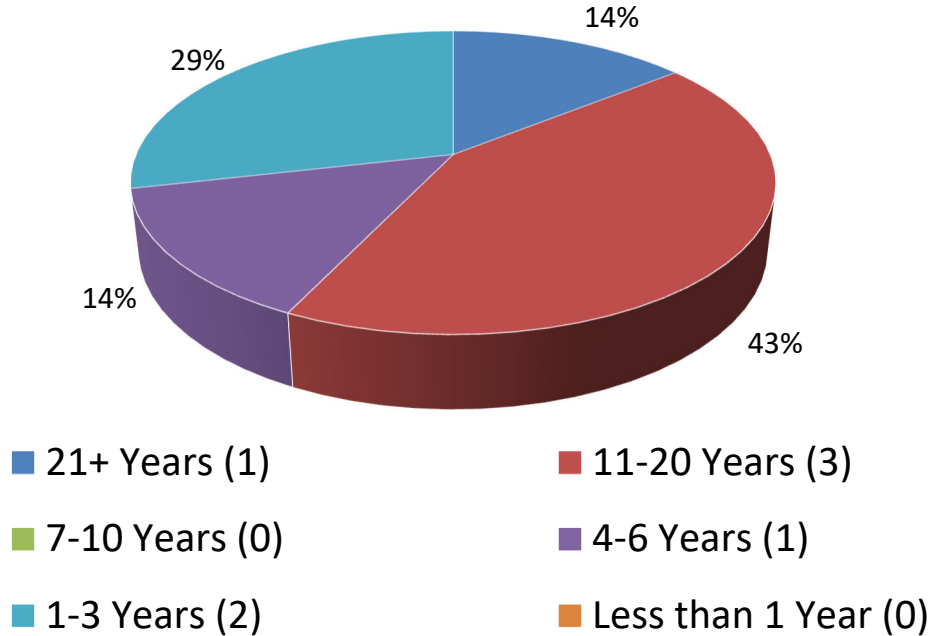
Consistent vs Inconsistent Responses Based on Hours of Footwear/Tire Track Training Completed



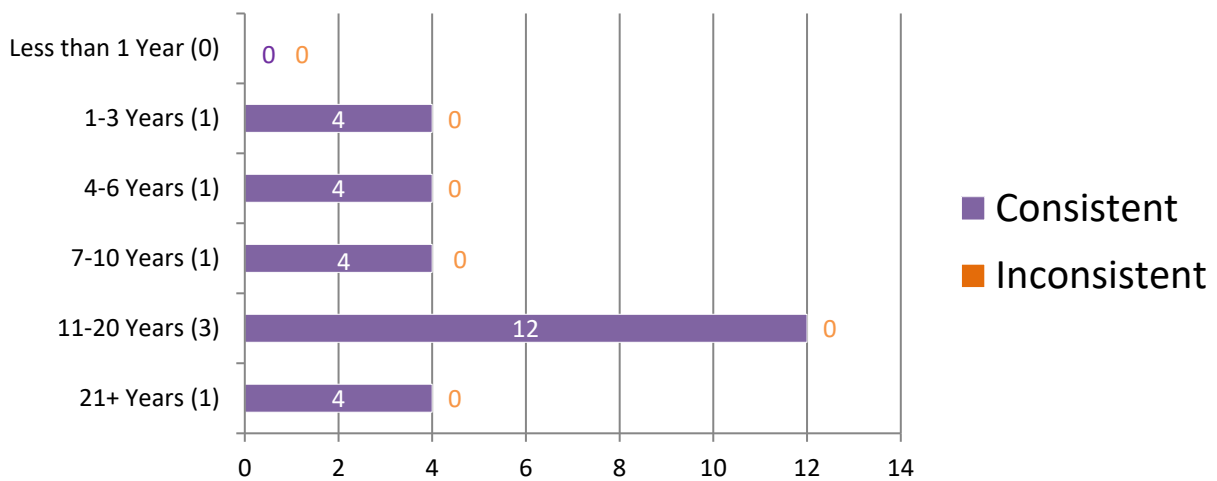
*Numerical values shown are based on **7 participant submissions, each with 4 responses, equaling 28 total responses.** *For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Appendix 9

Percentage of Participants Based on Years of Experience in Footwear/Tire Track Examinations



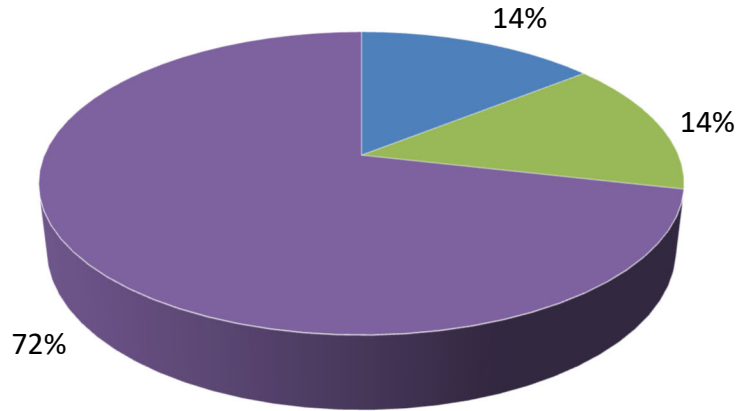
Consistent vs Inconsistent Responses Based on Years of Experience in Footwear/Tire Track Examinations



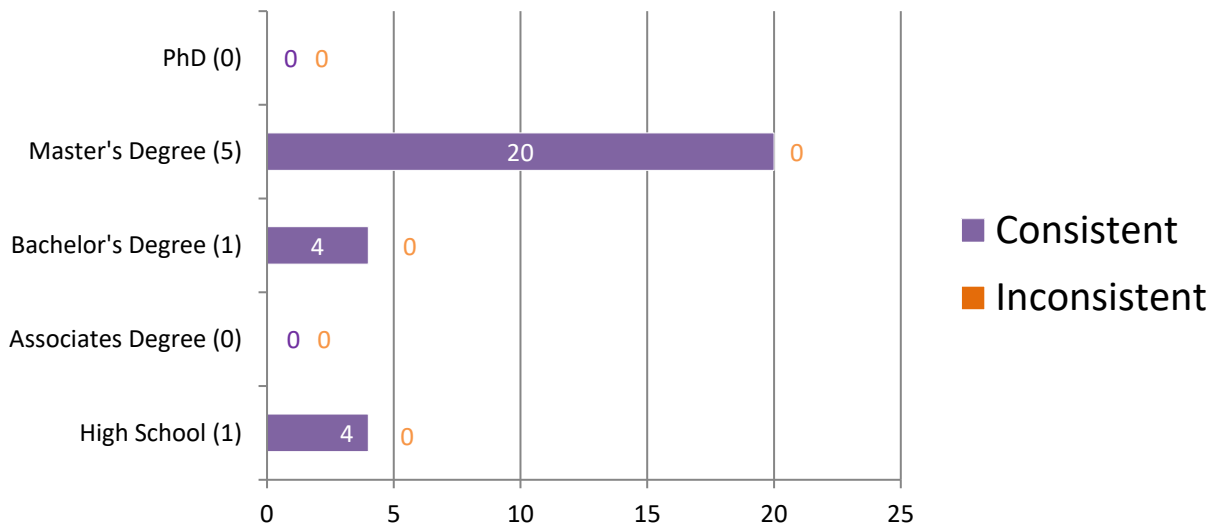
*Numerical values shown are based on **7 participant submissions, each with 4 responses, equaling 28 total responses**. *For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Appendix 10

Percentage of Participants Based on Highest Level of Education Completed

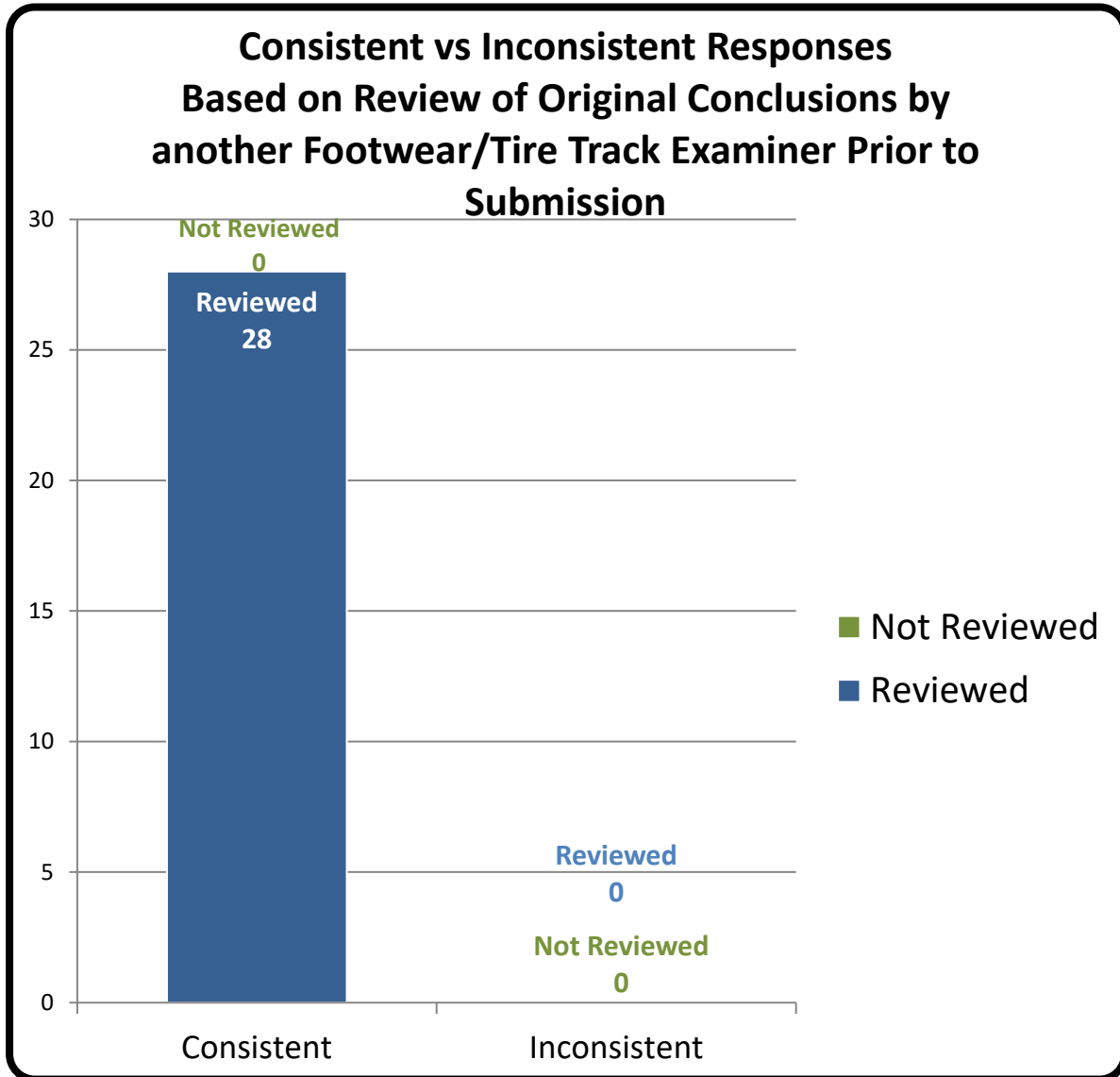


Consistent vs Inconsistent Responses Based on Highest Level of Education Completed



*Numerical values shown are based on **7 participant submissions, each with 4 responses, equaling 28 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 **7 participant submissions, each with 4 responses, equaling 28 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

	Questioned Impression #	Q-1	Q-2	Q-3	Q-4
	Assigned Values	EXC	ID SEC F	ID SEC D	ID SEC A
Test Code	2770K20401	EXC	ID SEC F	ID SEC D	ID SEC A
	930D20401	EXC	ID SEC F	ID SEC D	ID SEC A
	4911L20401	EXC	ID SEC F	ID SEC D	ID SEC A
	1965L20401	EXC	ID SEC F	ID SEC D	ID SEC A
	6743R20401	EXC	ID SEC F	ID SEC D	ID SEC A
	3870T20401	EXC	ID SEC F	ID SEC D	ID SEC A
	957L20401	EXC	ID SEC F	ID SEC D	ID SEC A

Totals

Questioned Impression #	Q-1	Q-2	Q-3	Q-4
Assigned Values	EXC	ID SEC F	ID SEC D	ID SEC A
Consistent Responses	7	7	7	7
Inconsistent Responses	0	0	0	0
Percentage of Consistent Responses	100%	100%	100%	100%

Participant's Additional Comments

Test ID	Comments
N/A	There were no additional comments.

Manufacturer's Additional Observations

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

1. Accreditation status, sworn or civilian status, IAI certification status, job title, time devoted to tire track casework, hours of training, years of experience, formal education or review of findings before submittal appeared to have no impact on submitted results for test 20401.

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

Date of Issue: August 25, 2020