



Ron Smith & Associates, Inc. Testing Division

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

Summary Report Tire Track Comparison Proficiency Test #21401 Issued: August 13, 2021

On April 19, 2021, Ron Smith and Associates, Inc. (RS&A) shipped the Tire Track Comparison Proficiency Test #21401. Participants were required to submit their responses no later than July 12, 2021 in order for them to be included in this summary report.

A total of 9 tests were ordered and shipped, with 9 participants returning their responses. **This summary report is based on 36 individual responses (9 individual submissions returning 4 responses each).** The test was provided in hard copy format and included 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 the expected responses were determined, by internal and external consensus, to be either "Identification" (Association) or "Exclusion" (Non-Association); 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

Tire Track Comparison Proficiency Test #21401

This proficiency test consisted of sectional photographs of known tires, known impressions of the tires), and four (4) questioned impressions. The participant was expected to compare the known tire sections and standards to the questioned impressions for a determination of inclusion/exclusion. The assigned values were as follows:

Questioned (Q-#)	Conclusion	Known Tire Section #
Q-1	Identification	Section B
Q-2	Identification	Section E
Q-3	Exclusion	N/A
Q-4	Identification	Section A

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

Known Tire Information:

Cambridge All Season II 225/60R16, passenger rear tire (Sections A through F)

Cambridge All Season II 225/60R16, driver rear tire (Exclusions)

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

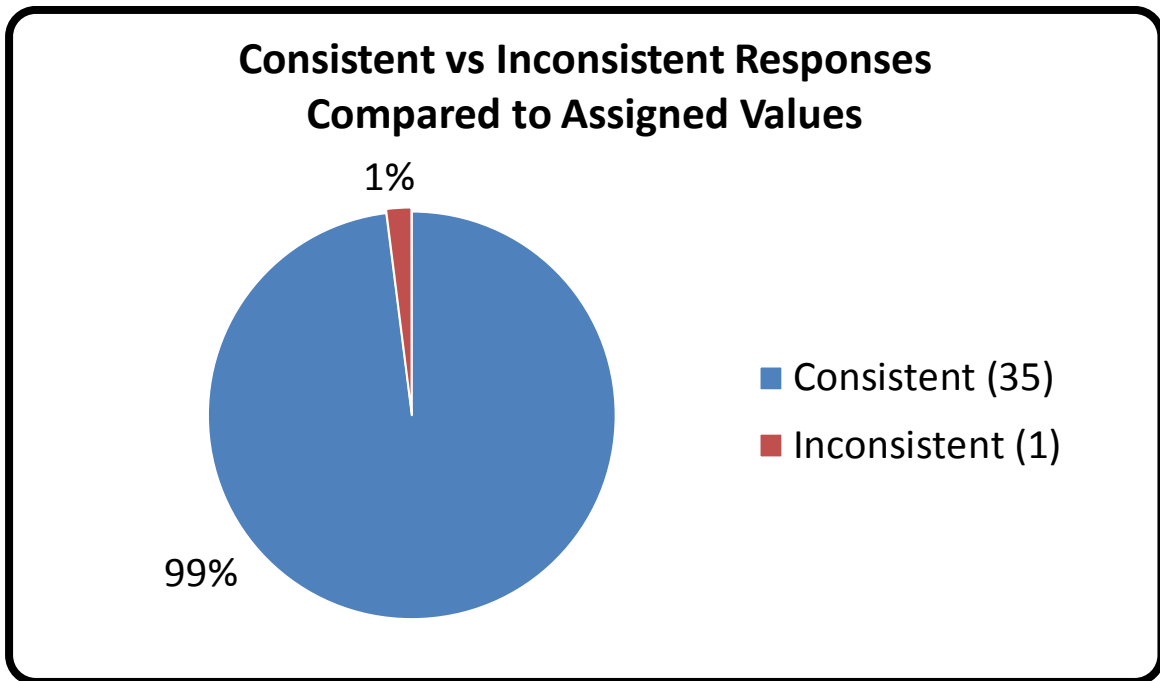
It is recommended to postpone evaluating an individual's performance until after you have received the statistical averages contained in the summary report.

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

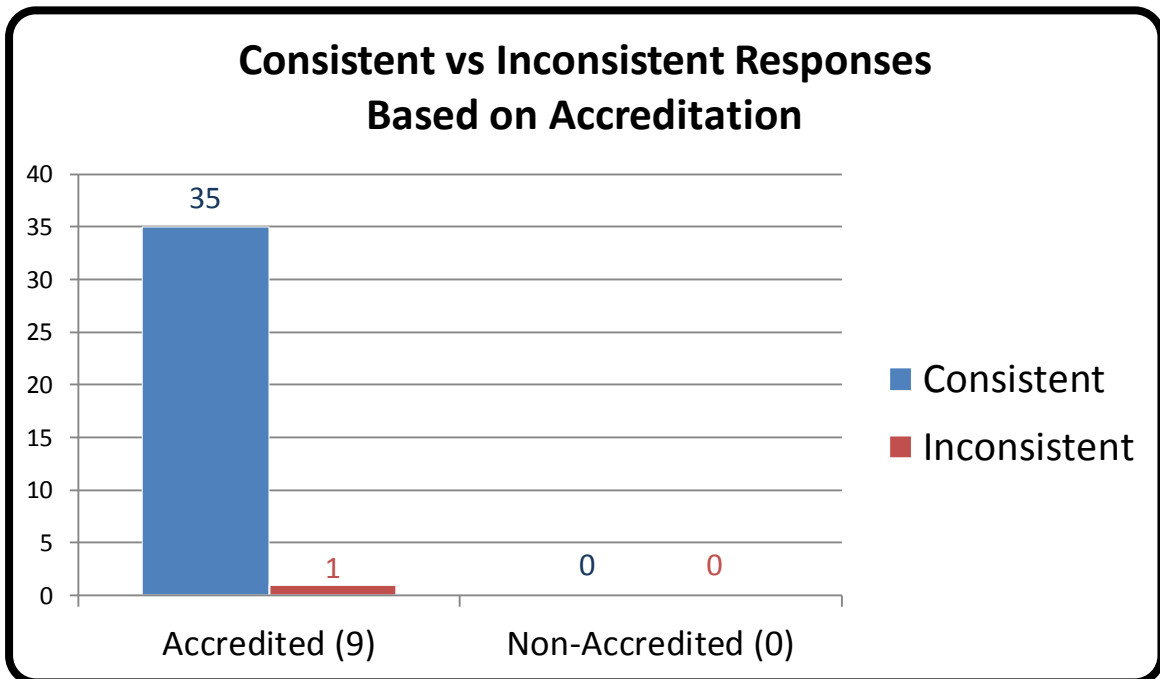
Authorized by: Ron Smith, President

Issue Date: July 26, 2021

Appendix 2



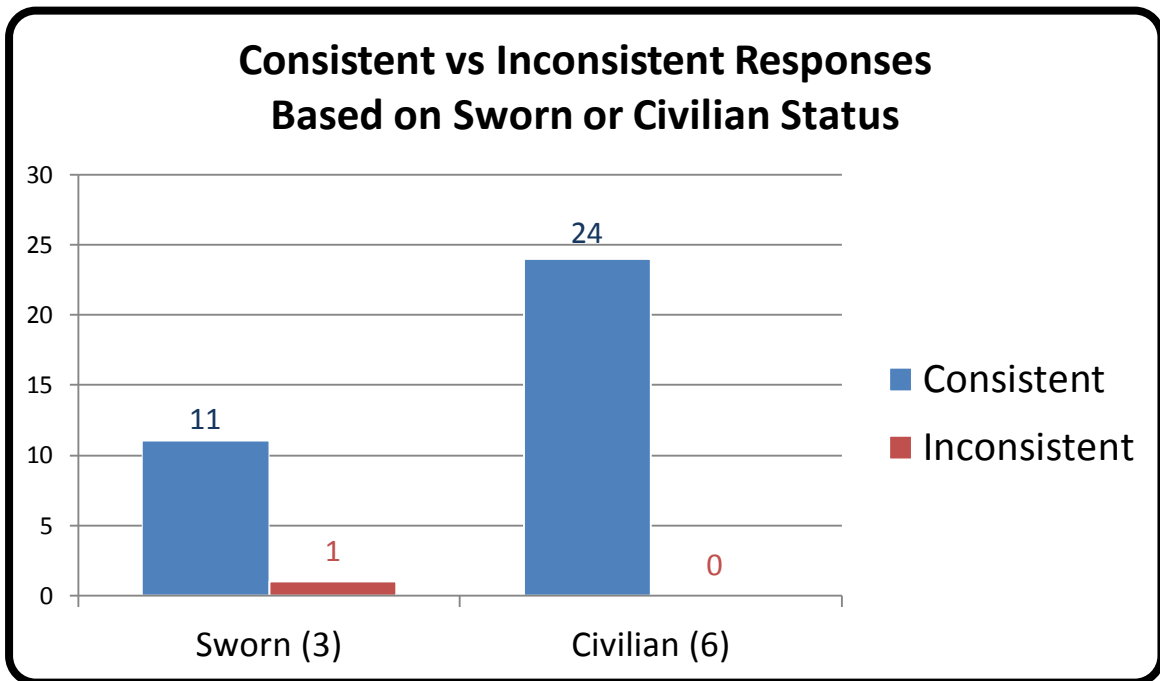
Appendix 3



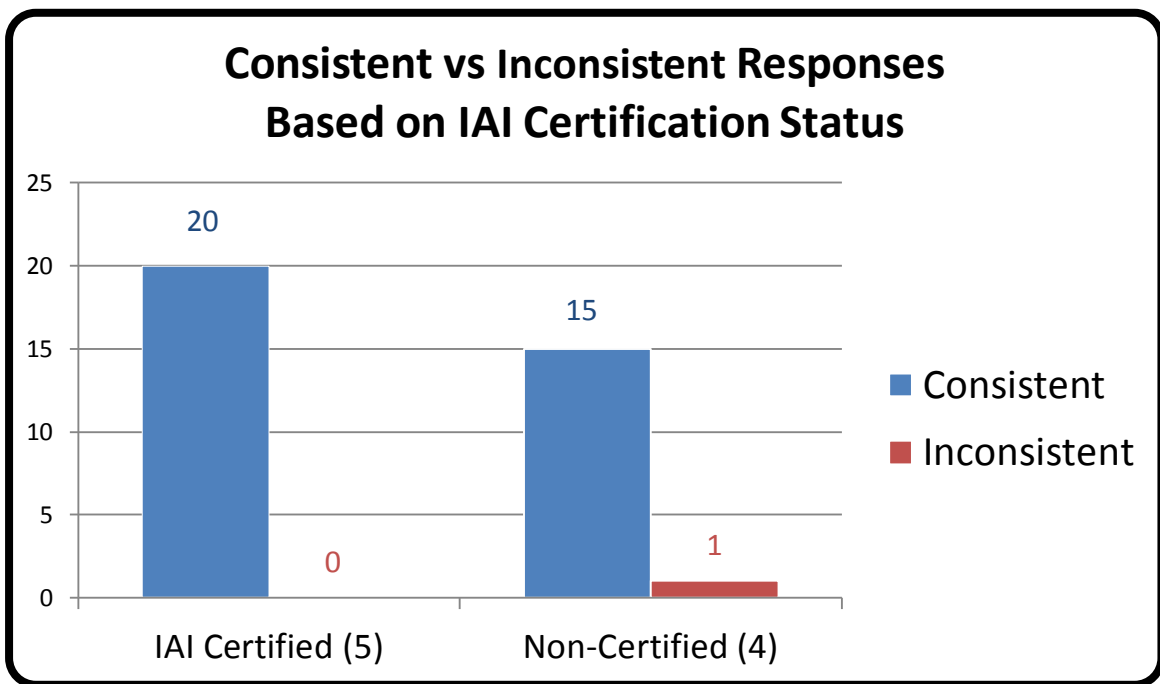
*Numerical values shown are based on 9 participant submissions, each with 4 responses, equaling 36 total responses.

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

Appendix 4



Appendix 5

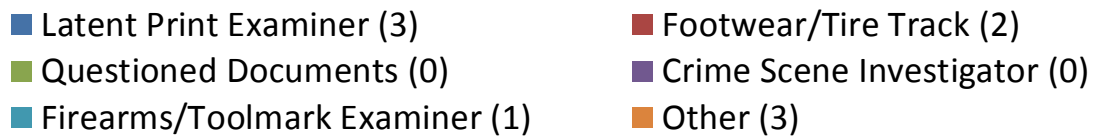
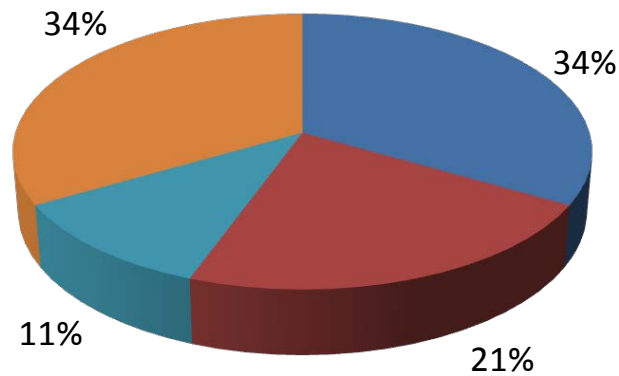


*Numerical values shown are based on 9 participant submissions, each with 4 responses, equaling 36 total responses.

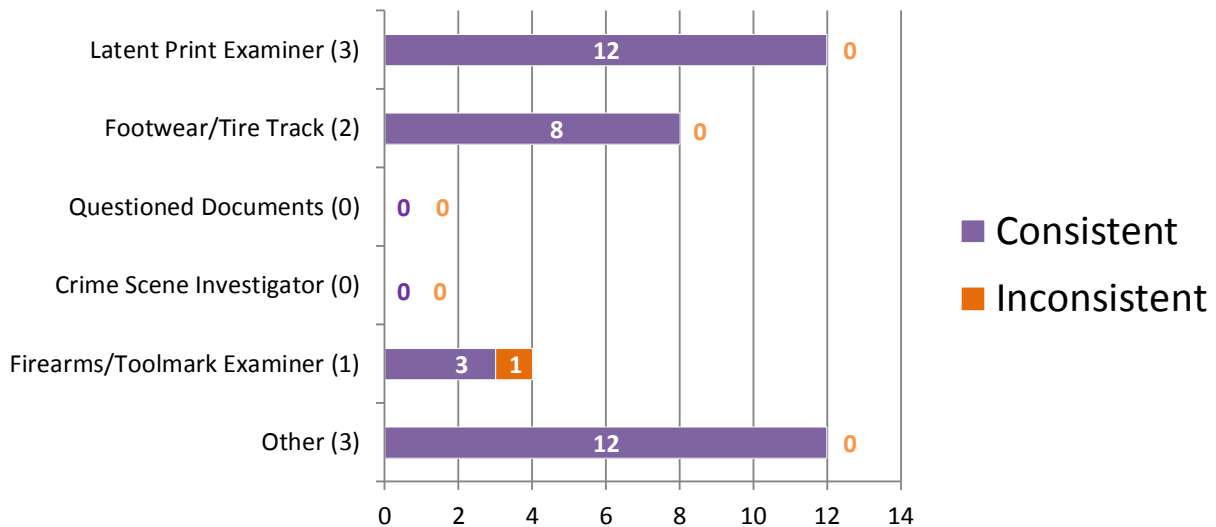
*For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Appendix 6

Percentage of Participants Based on Primary Job Position



Consistent vs Inconsistent Responses Based on Primary Job Position

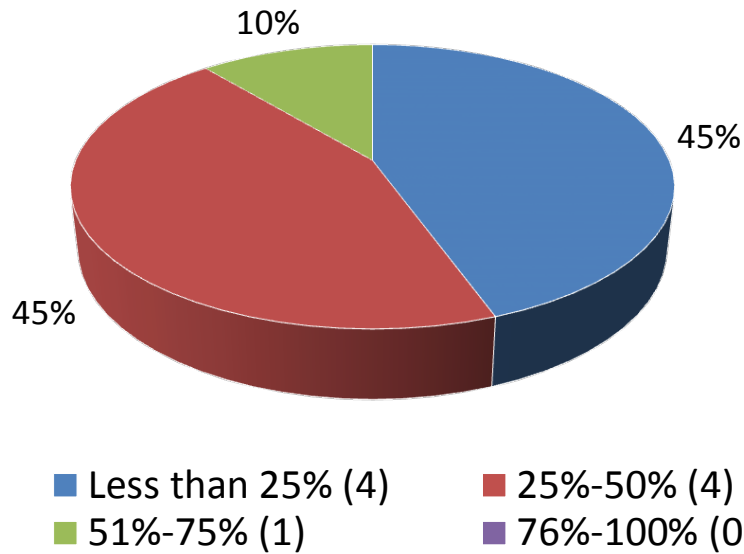


*Numerical values shown are based on 9 participant submissions, each with 4 responses, equaling 36 total responses.

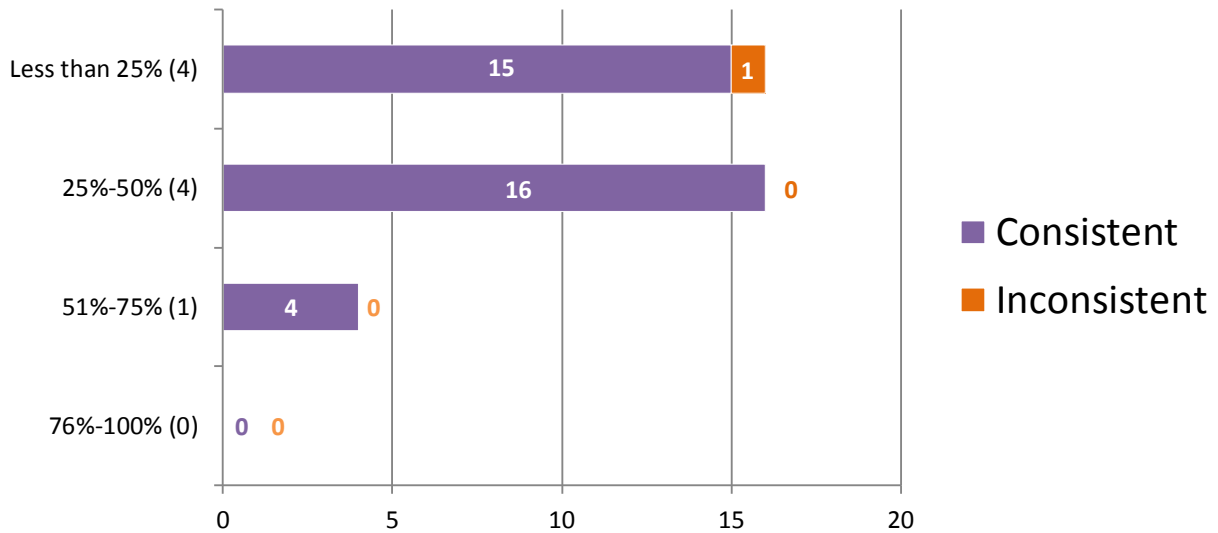
*For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

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

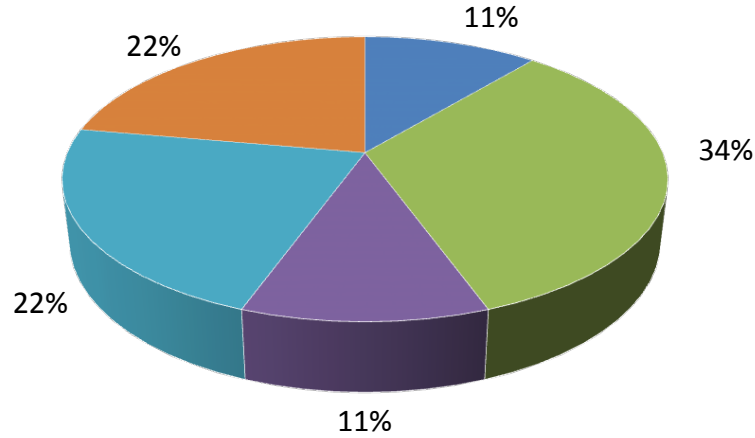


*Numerical values shown are based on 9 participant submissions, each with 4 responses, equaling 36 total responses.

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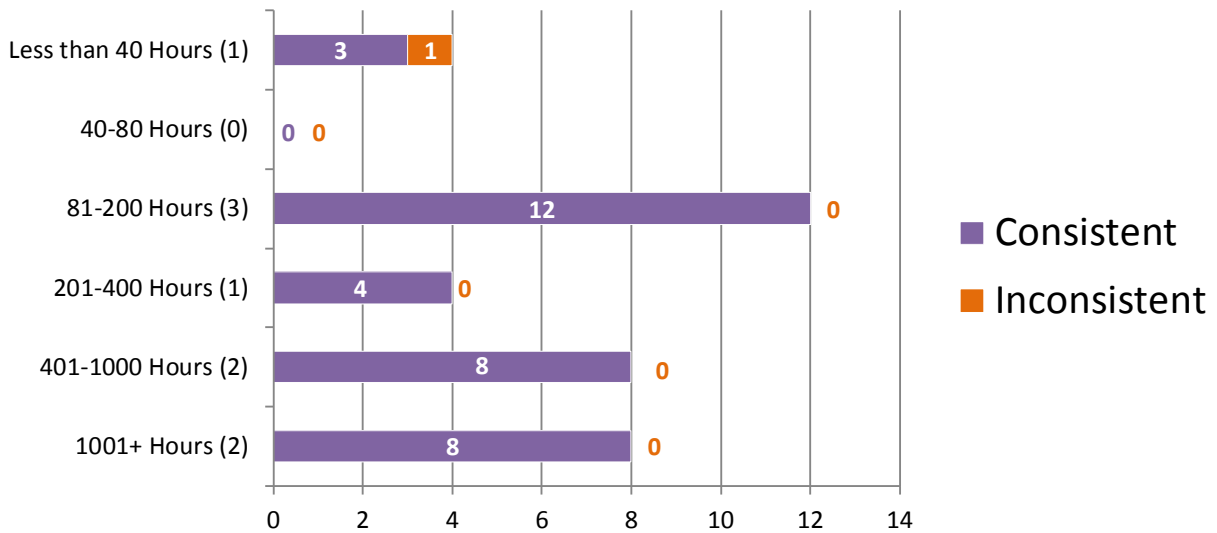
Appendix 8

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



- Less than 40 Hours (1)
- 40-80 Hours (0)
- 81-200 Hours (3)
- 201-400 Hours (1)
- 401-1000 Hours (2)
- 1001+ Hours (2)

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

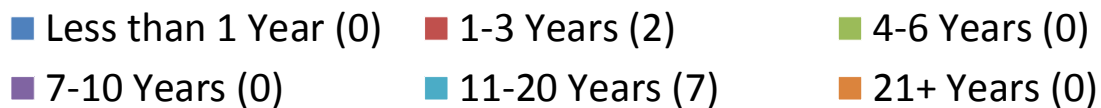
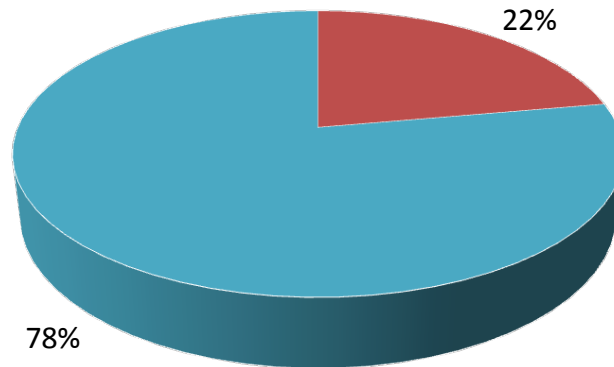


*Numerical values shown are based on 9 participant submissions, each with 4 responses, equaling 36 total responses.

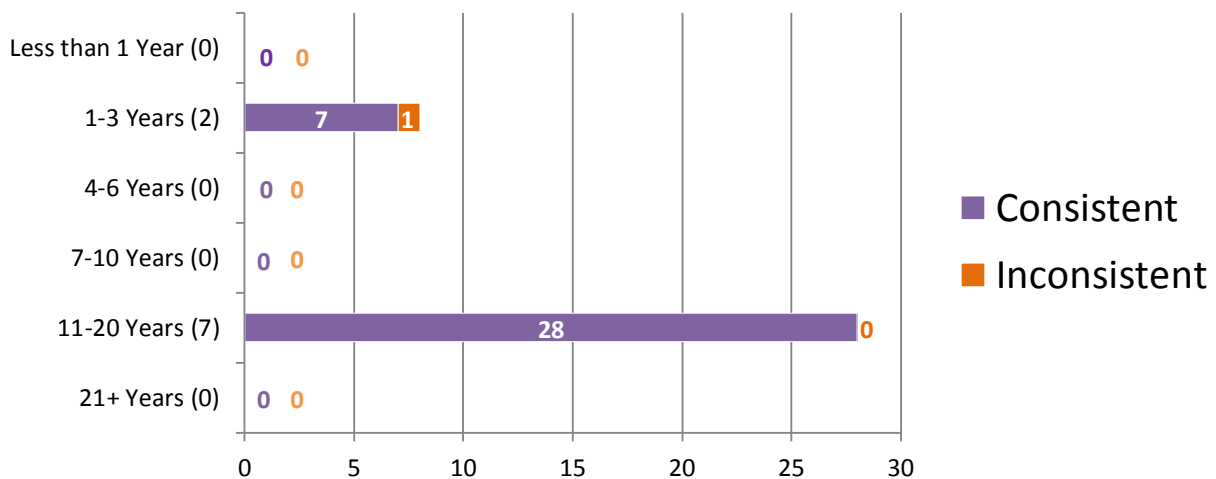
*For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

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

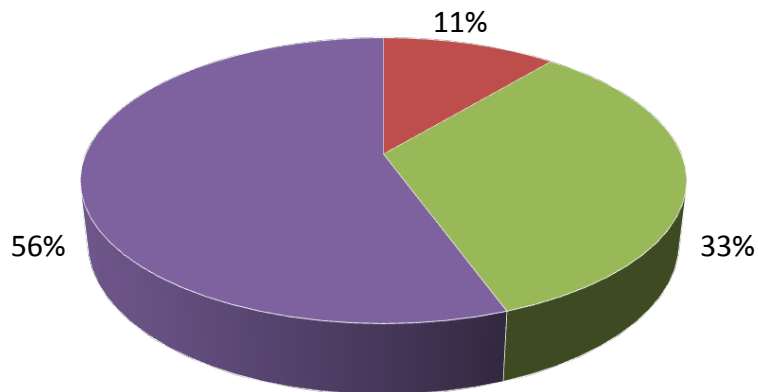


*Numerical values shown are based on **9 participant submissions, each with 4 responses, equaling 36 total responses.**

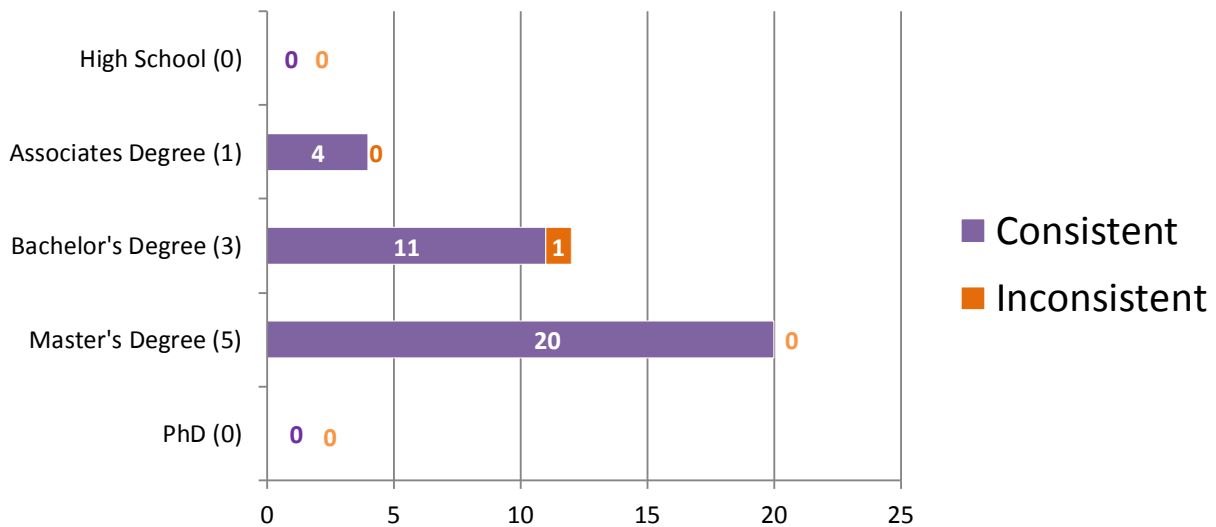
*For further information, please read **Manufacturer's Additional Observations** on the final page of this report.

Appendix 10

Percentage of Participants Based on Highest Level of Education Completed



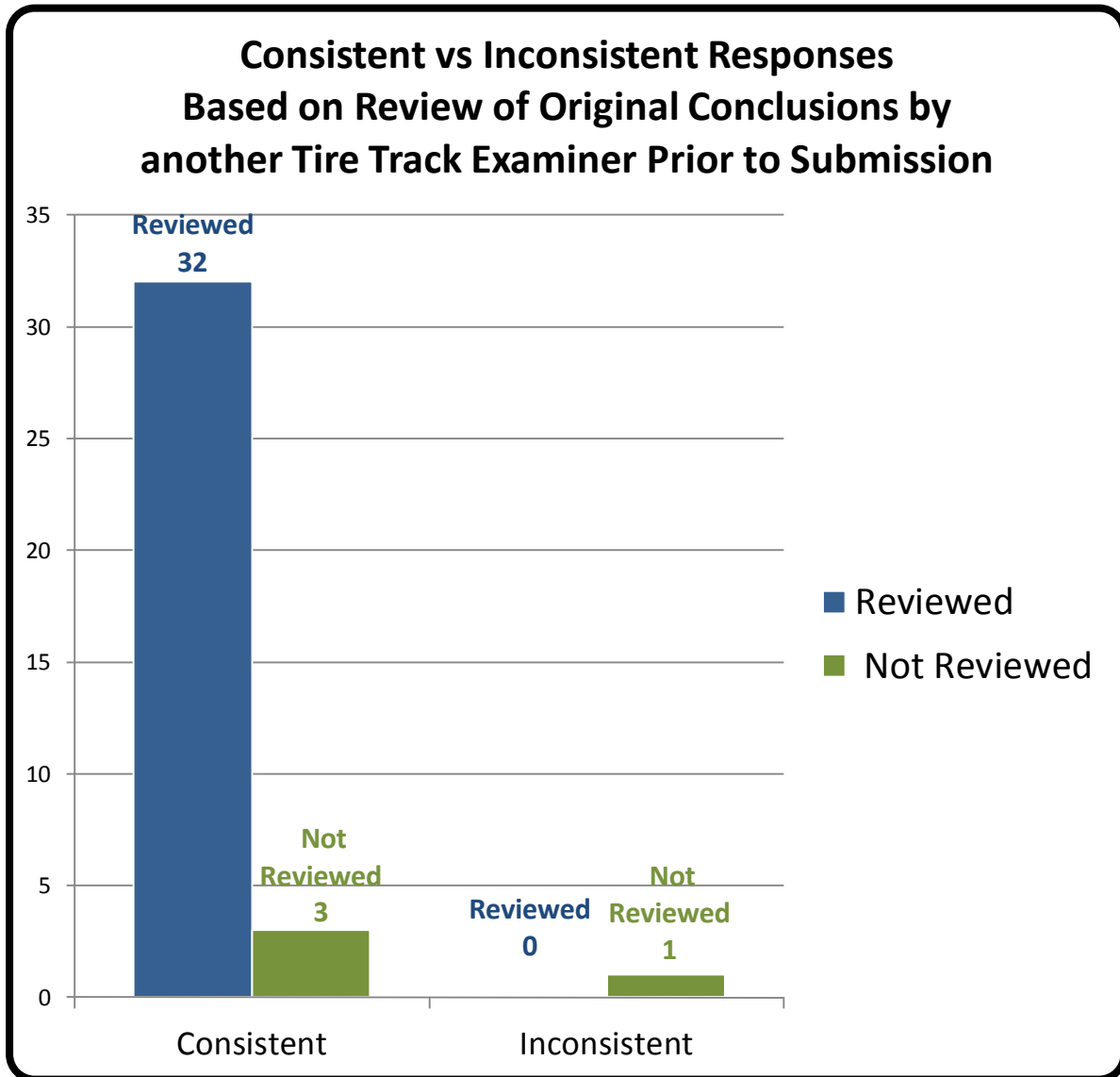
Consistent vs Inconsistent Responses Based on Highest Level of Education Completed



*Numerical values shown are based on 9 participant submissions, each with 4 responses, equaling 36 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 **9 participant submissions, each with 4 responses, equaling 36 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	ID - SEC B	ID - SEC E	EXC	ID - SEC A
Test Code	9173I21401	ID - SEC B	ID - SEC E	EXC	ID - SEC A
	8446S21401	ID - SEC B	ID - SEC E	EXC	ID - SEC A
	3066T21401	ID - SEC B	ID - SEC E	INA*	ID - SEC A
	8299E21401	ID - SEC B	ID - SEC E	EXC	ID - SEC A
	8054J21401	ID - SEC B	ID - SEC E	EXC	ID - SEC A
	8263W21401	ID - SEC B	ID - SEC E	EXC	ID - SEC A
	4460I21401	ID - SEC B	ID - SEC E	EXC	ID - SEC A
	1025O21401	ID - SEC B	ID - SEC E	EXC	ID - SEC A
	1391N21401	ID - SEC B	ID - SEC E	INC*	ID - SEC A

*INA = Indications of Non-Association

*INC = Inconclusive

Totals

Questioned Impression #	Q-1	Q-2	Q-3	Q-4
Assigned Values	ID - SEC B	ID - SEC E	EXC	ID - SEC A
Consistent Responses	9	9	8	9
Inconsistent Responses	0	0	1	0
Percentage of Consistent Responses	100%	100%	89%	100%

Participant's Additional Comments

Test ID	Comments
3066T21401	I was reluctant to exclude Q-3. There were possible RAC's observed in Q-3, but RAC's need to be confirmed on the tire, as they may be some artifact, and not actually a RAC.

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 21401.

Authorized by: Ron Smith, President
Date of Issue: August 13, 2021