



TRB Truck and Bus Safety – Technology Subcommittee

January 11, 2022



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Programs

- The Commercial Vehicle Safety Alliance (CVSA) is a nonprofit association comprised of local, state, provincial, territorial and federal commercial motor vehicle safety officials and industry representatives. The Alliance aims to achieve uniformity, compatibility and reciprocity of commercial motor vehicle inspections and enforcement activities by certified inspectors dedicated to driver and vehicle safety.

Principal North American federal agencies are at the table and engaged in the dialogue

- FMCSA, FHWA, PHMSA, NHTSA, NTSB, TSA, DOE (U.S.)
- Transport Canada, CCMTA (Canada)
- SCT, Federal Police (Mexico)

U.S. Congress

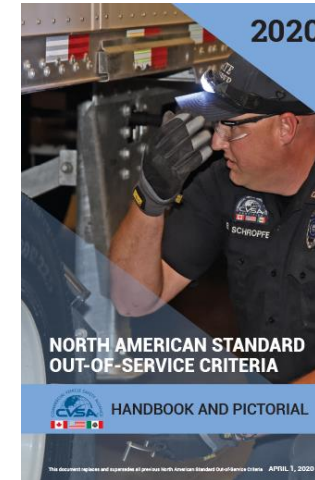
- Government Affairs
- Legislative activity
- Testify at hearings

Industry has a seat at the table and a voice in deliberations

About CVSA



- Roadside CMV Inspector Certification
- North American Standard (NAS) Inspection Procedures
- NAS Training Program
- CVSA Decal Program
- NAS Out-of-Service Criteria
- Outreach and Education
- Policy Development



North American Standard Inspection Program



13,000+ CVSA-Certified inspectors deployed across North America

- 800,000 law enforcement personnel

Over 1,400 fixed facilities

8 different inspection types

Annual activities:

- 4 million NAS Roadside Inspections
- Operation Air Brake/Roadcheck/Operation Safe Driver



Anticipated Inspection Approach for ADS Equipped Trucks



Build an Enforcement “Trust and Verify” Approach

- (A) Require enhanced trip inspection by CVSA-trained personnel, recommend more frequent periodic inspections (e.g., quarterly)
- (B) Limit roadside/weigh station inspection stops (while retaining law enforcement authority)
- (C) Build viable set of data to be exchanged electronically:
 - ADS health status (may encompass some vehicle components)
 - Relevant CVSA Level VIII information (driver data omitted)
 - Trip inspection result result and *vehicle safety data*
 - Gross Vehicle/Axle Weights

*Information on this slide represents draft recommendation language not yet adopted by CVSA

North American Standard Inspection Program

- Level I – Vehicle and Driver
- Level II – Walk-Around Driver/Vehicle
- Level III – Driver/Credential Inspection
- Level IV – Special Inspections
- Level V – Vehicle Only
- Level VI – Radiological Shipments (Specific Levels of Activity)
- Level VII – Jurisdictional Mandated
- Level VIII – Electronic Inspection

	INSPECTION LEVEL					
	I	II	III	V	VI	VIII
1. Choose the Inspection Site	X	X	X		X	
2. Approach the Vehicle	X	X	X		X	
3. Greet and Prepare Driver	X	X	X		X	
4. Interview Driver	X	X	X		X	
5. Collect the Driver's Documents	X	X	X		X	X
6. Check for the Presence of Hazardous Materials/Dangerous Goods	X	X	X		X	X
7. Identify the Carrier	X	X	X		X	X
8. Examine Driver's License	X	X	X		X	X
9. Check Medical Examiner's Certificate and Skill Performance Evaluation (SPE) Certificate (If Applicable)	X	X	X		X	X
10. Check Record of Duty Status	X	X	X		X	X
11. Review Driver's Daily Inspection Report (If Applicable)	X	X	X		X	X
12. Review Periodic Inspection Report(s)	X	X	X	X	X	X
13. Prepare Driver for Vehicle Inspection	X	X		X	X	
14. Inspect Front of Tractor	X	X		X	X	
15. Inspect Left Front Side of Tractor	X	X		X	X	
16. Inspect Left Saddle Tank Area	X	X		X	X	
17. Inspect Trailer Front	X	X		X	X	
18. Inspect Left Rear Tractor Area	X	X		X	X	
19. Inspect Left Side of Trailer	X	X		X	X	
20. Inspect Left Rear Trailer Wheels	X	X		X	X	
21. Inspect Rear of Trailer	X	X		X	X	
22. Inspect Double, Triple and Full Trailers	X	X		X	X	
23. Inspect Right Rear Trailer Wheels	X	X		X	X	
24. Inspect Right Side of Trailer	X	X		X	X	
25. Inspect Right Rear Tractor Area	X	X		X	X	
26. Inspect Right Saddle Tank Area	X	X		X	X	
27. Inspect Right Front Side of Tractor	X	X		X	X	
28. Inspect Steering Axle(s)	X			X	X	
29. Inspect Axle(s) 2 and/or 3 (Under Carriage of CMV)	X			X	X	
30. Inspect Axle(s) 4 and/or 5	X			X	X	
31. Check Brake Adjustment	X			X	X	
32. Inspect Tractor Protection System (This procedure tests both the tractor protection system and the emergency brakes.)	X			X	X	
33. Inspect Required Brake System Warning Devices	X	X		X	X	
34. Test Air Loss Rate	X	X		X	X	
35. Check Steering Wheel Lash	X	X		X	X	
36. Check Fifth Wheel Movement	X			X	X	
37. Complete the Inspection	X	X	X	X	X	X

North American Standard Inspection Program



- Level I
- Level II
- Level III
- Level IV
- Level V
- Level VI
- Level VII
- Level VIII

	INSPECTION LEVEL						
	I	II	III	V	VI	VIII	
1. Choose the Inspection Site	X	X	X		X		
2. Approach the Vehicle	X	X	X		X		
3. Greet and Prepare Driver	X	X	X		X		
4. Interview Driver	X	X	X		X		
5. Collect the Driver's Documents	X	X	X		X	X	
6. Check for the Presence of Hazardous Materials/Dangerous Goods	X	X	X		X	X	
7. Identify the Carrier	X	X	X		X	X	
8. Examine Driver's License	X	X	X		X	X	
9. Check Medical Examiner's Certificate and Skill Performance Evaluation (SPE) Certificate (If Applicable)	X	X	X		X	X	
10. Check Record of Duty Status	X	X	X		X	X	
11. Review Driver's Daily Inspection Report (If Applicable)	X	X	X		X	X	
12. Review Periodic Inspection Report(s)	X	X	X	X	X	X	
13. Prepare Driver for Vehicle Inspection	X	X		X	X		
14. Inspect Front of Tractor	X	X		X	X		
15. Inspect Left Front Side of Tractor	X	X		X	X		

We have Building Blocks of Electronic Inspections



- **Universal Vehicle ID (still needed; on CVSA wish list)**
- **Telematics (commercially available services for asset management and monitoring)**
- **Commercial weigh station bypass systems**
- **Electronic Logging Devices (ELDs)**
- **Smart trailers**
- **Sensors and monitoring (temperature, pressure, vibration)**
- **Database integration**
- **Connectivity**
- **New inspection softwares**

The image features a large, white, stylized logo for CVSA (Commercial Vehicle Safety Alliance) centered over a blue-tinted background. The background shows the front of a white commercial truck with 'HEIL' on the top and 'Peterbilt' on the grille. Two police officers in dark uniforms are standing to the right of the truck, one looking at a clipboard. The overall scene is outdoors on a paved area with trees in the background.

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