



# Enhanced Inspection Program for ADS vehicles

October 17, 2024

# Who is CVSA?



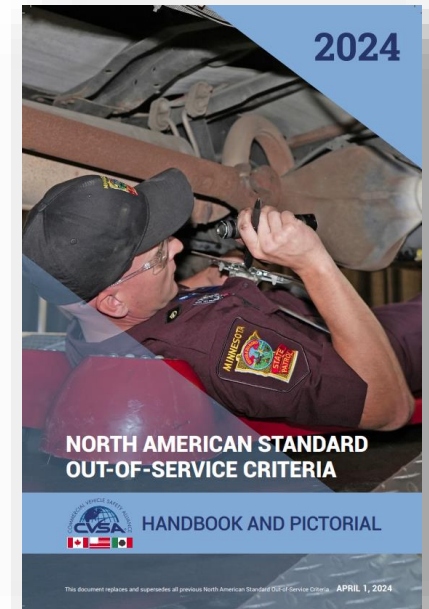
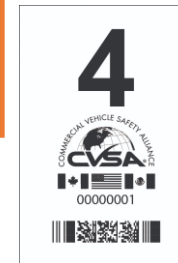
The Commercial Vehicle Safety Alliance (CVSA) is a nonprofit organization comprised of local, state, provincial, territorial and federal commercial motor vehicle safety officials and industry representatives. The Alliance aims to prevent commercial motor vehicle crashes, injuries and fatalities and believes that collaboration between government and industry improves road safety and saves lives. Our mission is to improve commercial motor vehicle safety and enforcement by providing guidance, education and advocacy for enforcement and industry across North America.



# About CVSA



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





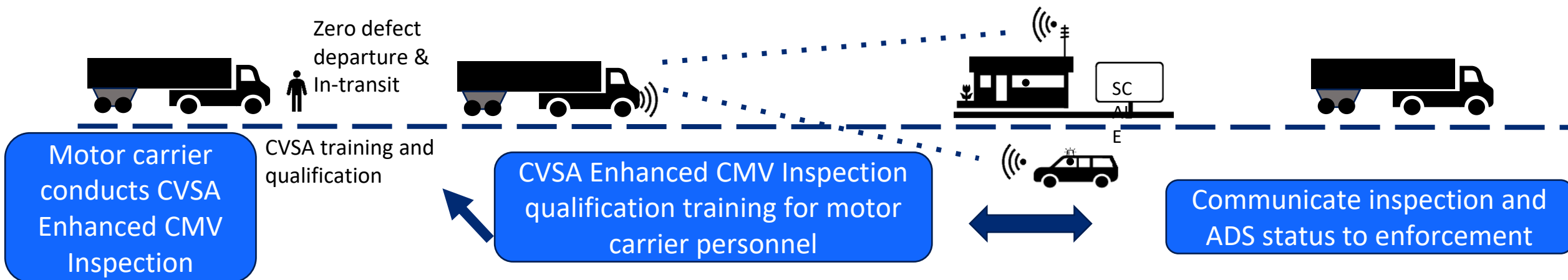
# Enhanced CMV Inspection Program



- No-defect, point-of-origin inspection program for Level 4 and 5 equipped commercial motor vehicles.
  - Subject to an enhanced CMV inspection by certified inspector prior to beginning trip, periodically once trip begins
  - Vehicle must communicate data set wirelessly to enforcement
  - Bypass inspection stations and minimize enroute stops – imminent hazard

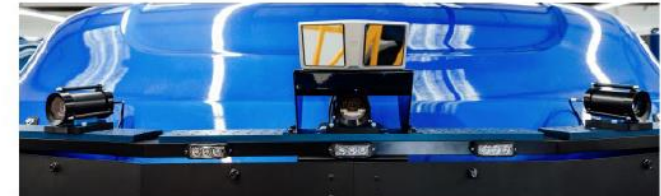
## CVSA Enhanced CMV Inspection (for motor carrier operations)

- Stops for inspections limited unless imminent hazards observed



## CVSA Enhanced Commercial Motor Vehicle Inspection Standard (for motor carrier operations)

### CVSA Enhanced Commercial Motor Vehicle Inspection Standard (for motor carrier operations)



### Tractor/Semitrailer (Air Brake-Diesel/Gasoline)

## Inspection Standard

- Vehicle Requirements
  - 10 sections
- Cargo Securement
  - One section

### CVSA ENHANCED COMMERCIAL MOTOR VEHICLE INSPECTION STANDARD

*(for motor carrier operations)*

Tractor/Semitrailer (Air Brake-Diesel/Gasoline)

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# CVSA Enhanced CMV Inspection Materials



## Inspection Checklist



### Enhanced CMV Inspection Report – Tractor/Semitrailer (Air Brakes)

Refer to the Enhanced Commercial Motor Vehicle Inspection Standard for Defect Criteria

Inspection Date/Time: \_\_\_\_\_ Location: \_\_\_\_\_ Odometer Reading: \_\_\_\_\_

Plate/Unit Number(s): \_\_\_\_\_ Dispatch/In-Transit (Circle applicable inspection) Name/Signature: \_\_\_\_\_ (Printed name and signature of inspector)

I – Inspection Component (Mark “X”, if Defective) / E – Enhanced CMV Inspection Standard Reference

| Inspection Step                          | I | E                  |
|--|---|--------------------|
| <b>2 – Front of Tractor</b>              | X | E                  |
| • Periodic Inspection Decal/Document     |   | Valid for 3 months |
| • Headlamp                               |   | 6.1.a/b            |
| • Turn Signal                            |   | 6.1.a/e            |
| • Hazard Warning Lamp                    |   | 6.1.a/f            |
| • Clearance Lamp                         |   | 6.1.a/h            |
| • Identification Lamp                    |   | 6.1.a/i            |
| • Bumper                                 |   | 8.10.a-b           |
| • ABS System                             |   | 5.10.a             |
| <b>3 – Left Front Side of Tractor</b>    | I | E                  |
| • Hood or Engine Enclosure               |   | 8.1.a-d            |
| • Front fender                           |   | 8.3.d              |
| • Cab and Passenger Vehicle Body         |   | 8.3.a-c            |
| • Frame, Rails and Mounts                |   | 8.5.a-b            |
| • Cab Door                               |   | 8.7.a-b            |
| • Side Windows                           |   | 8.12.a-b           |
| • Rear-view Mirror                       |   | 8.16.a-d           |
| • Tires - Tread Depth                    |   | 9.1.a              |
| • Tires - Tread/Sidewall Condition       |   | 9.2.a-d            |
| • Tires - Sidewall Markings              |   | 9.3.a-b            |
| • Tires - Inflation                      |   | 9.4.a-c            |
| • Wheels - Hub                           |   | 9.5.a-e            |
| • Wheels - Rim                           |   | 9.6.a              |
| • Wheels - Spoke                         |   | 9.7.a-c            |
| • Wheels - Disc                          |   | 9.8.a              |
| • Wheels - Fasteners                     |   | 9.9.a-b            |
| <b>4 – Left Saddle Tank Area</b>         | I | E                  |
| • Exhaust System                         |   | 1.2.a-h            |
| • Fuel System                            |   | 1.4.a-e            |
| • Battery                                |   | 7.2.a-d            |
| • Frame, Rails and Mounts                |   | 8.5.a-b            |
| <b>5 – Trailer Front/Rear of Tractor</b> | I | E                  |
| • Air System (Gladhands/Fittings/Leaks)  |   | 3.11.a-c           |
| • Headache Rack, if applicable           |   | 5.9.a              |
| • Wiring                                 |   | 7.1.a-c            |
| • Trailer Corral                         |   | 7.3.a-b            |
| • Air Suspended Cab                      |   | 8.2.a-d            |
| • Unintended Body Elements (bulkhead)    |   | 8.6.a              |
| • Reefer or Auxiliary Power Unit         |   | 8.9.a              |
| <b>6 – Left Rear Tractor Area</b>        | I | E                  |
| • Tail Lamp                              |   | 6.1.a/c            |
| • Stop (Brake Lamp)                      |   | 6.1.a/d            |
| • Turn Signals                           |   | 6.1.a/e            |
| • Hazard Warning Lamps                   |   | 6.1.a/f            |
| • Back up/Reverse Lamp                   |   | 6.1.a/j            |
| • License Plate Lamp                     |   | 6.1.a/k            |
| • Reflex Reflector                       |   | 6.2.a-c            |
| • Retro-Reflective Marking               |   | 6.3.a-d            |
| • Rear Window                            |   | 8.13.a             |
| • Fender/Mudflap                         |   | 8.19.a             |
| • Tire Tread Depth                       |   | 9.1.b              |
| • Tires - Tread/Sidewall Condition       |   | 9.2.a-d            |
| • Tires - Sidewall Markings              |   | 9.3.a-b            |
| • Tires - Inflation                      |   | 9.4.a-c            |
| • Wheels - Hub                           |   | 9.5.a-e            |
| • Wheels - Rim                           |   | 9.6.a              |
| • Wheels - Spoke                         |   | 9.7.a-c            |
| • Wheels - Disc                          |   | 9.8.a              |
| • Wheels - Fasteners                     |   | 9.9.a-b            |
| • Automated Coupling Device              |   | 10.2.a             |
| • Fifth Wheel Coupler                    |   | 10.3.a-f           |

| Inspection Step                     | I | E        |
|-------------------------------------|---|----------|
| <b>7 – Left Side of Trailer</b>     | X | E        |
| • Left Side Marker Lamp             |   | 6.1.a/g  |
| • Retro-Reflective Marking          |   | 6.3.a-d  |
| • Cargo Body                        |   | 8.4.a-i  |
| • Frame, Rails and Mounts           |   | 8.5.a-b  |
| • Landing Gear on Trailer           |   | 8.20.a-c |
| • Sliding Axle Assembly             |   | 8.21.a-c |
| • Aerodynamic Device                |   | 8.22.a   |
| <b>8 – Left Rear of Trailer</b>     | I | E        |
| • Tires - Tread Depth               |   | 9.1.b    |
| • Tires - Tread/Sidewall Condition  |   | 9.2.a-d  |
| • Tires - Sidewall Markings         |   | 9.3.a-b  |
| • Tires - Inflation                 |   | 9.4.a-c  |
| • Wheels - Hub                      |   | 9.5.a-e  |
| • Wheels - Rim                      |   | 9.6.a    |
| • Wheels - Spoke                    |   | 9.7.a-c  |
| • Wheels - Disc                     |   | 9.8.a    |
| • Wheels - Fasteners                |   | 9.9.a-b  |
| <b>9 – Rear of Trailer</b>          | I | E        |
| • ABS Malfunction Lamp              |   | 3.19.a   |
| • Tail Lamp                         |   | 6.1.a/c  |
| • Stop (Brake Lamp)                 |   | 6.1.a/d  |
| • Turn Signals                      |   | 6.1.a/e  |
| • Hazard Warning Lamp               |   | 6.1.a/f  |
| • Clearance Lamp                    |   | 6.1.a/h  |
| • Identification Lamp               |   | 6.1.a/i  |
| • License Plate Lamp                |   | 6.1.a/k  |
| • Projecting Load Lamp, if equipped |   | 6.1.l    |
| • Reflex Reflector                  |   | 6.2.a-c  |
| • Retro-Reflective Marking          |   | 6.3.a-d  |
| • Cargo Door                        |   | 8.7.a-b  |
| • Aerodynamic Device                |   | 8.22.a   |
| • Rear Impact Guard                 |   | 8.23.a-b |
| <b>10 – Right Rear of Trailer</b>   | I | E        |
| • Frame, Rails and Mounts           |   | 8.5.a-b  |
| • Tire Tread Depth                  |   | 9.1.b    |
| • Tires - Tread/Sidewall Condition  |   | 9.2.a-d  |
| • Tires - Sidewall Markings         |   | 9.3.a-b  |
| • Tires - Inflation                 |   | 9.4.a-c  |
| • Wheels - Hub                      |   | 9.5.a-e  |
| • Wheels - Rim                      |   | 9.6.a    |
| • Wheels - Spoke                    |   | 9.7.a-c  |
| • Wheels - Disc                     |   | 9.8.a    |
| • Wheels - Fasteners                |   | 9.9.a-b  |
| <b>11 – Right Side of Trailer</b>   | I | E        |
| • Right Side Marker Lamp            |   | 6.1.a/g  |
| • Retro-Reflective Marking          |   | 6.3.a-d  |
| • Cargo Body                        |   | 8.4.a-i  |
| • Frame, Rails and Mounts           |   | 8.5.a-b  |
| • Landing Gear on Trailer           |   | 8.20.a-c |
| • Sliding Axle Assembly             |   | 8.21.a-c |
| • Aerodynamic Device                |   | 8.22.a   |
| <b>12 – Right Rear Tractor Area</b> | I | E        |
| • Retro-Reflective Marking          |   | 6.3.a-d  |
| • Air Suspended Cab                 |   | 8.2.a-d  |
| • Frame, Rails and Mounts           |   | 8.5.a-b  |
| • Fender/Mudflap                    |   | 8.19.a   |
| • Tire Tread Depth                  |   | 9.1.b    |
| • Tires - Tread/Sidewall Condition  |   | 9.2.a-d  |
| • Tires - Sidewall Markings         |   | 9.3.a-b  |
| • Tires - Inflation                 |   | 9.4.a-c  |



### Enhanced CMV Inspection Report – Tractor/Semitrailer (Air Brakes)

Refer to the Enhanced Commercial Motor Vehicle Inspection Standard for Defect Criteria

Inspection Date/Time: \_\_\_\_\_ Location: \_\_\_\_\_ Odometer Reading: \_\_\_\_\_

Plate/Unit Number(s): \_\_\_\_\_ Dispatch/In-Transit (Circle applicable inspection) Name/Signature: \_\_\_\_\_ (Printed name and signature of inspector)

I – Inspection Component (Mark “X”, if Defective) / E – Enhanced CMV Inspection Standard Reference

| Inspection Step                       | I | E                  |
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| <b>2 – Front of Tractor</b>           | X | E                  |
| • Periodic Inspection Decal/Document  |   | Valid for 3 months |
| • Headlamp                            |   | 6.1.a/b            |
| • Turn Signal                         |   | 6.1.a/e            |
| • Hazard Warning Lamp                 |   | 6.1.a/f            |
| • Clearance Lamp                      |   | 6.1.a/h            |
| • Identification Lamp                 |   | 6.1.a/i            |
| • Bumper                              |   | 8.10.a-b           |
| • ADS System                          |   | 5.10.a             |
| <b>3 – Left Front Side of Tractor</b> | I | E                  |
| • Hood or Engine Enclosure            |   | 8.1.a-d            |
| • Front fender                        |   | 8.3.d              |
| • Cab and Passenger Vehicle Body      |   | 8.3.a-c            |
| • Frame, Rails and Mounts             |   | 8.5.a-b            |

| Inspection Step                    | I | E        |
|------------------------------------|---|----------|
| <b>7 – Left Side of Trailer</b>    | X | E        |
| • Left Side Marker Lamp            |   | 6.1.a/g  |
| • Retro-Reflective Marking         |   | 6.3.a-d  |
| • Cargo Body                       |   | 8.4.a-i  |
| • Frame, Rails and Mounts          |   | 8.5.a-b  |
| • Landing Gear on Trailer          |   | 8.20.a-c |
| • Sliding Axle Assembly            |   | 8.21.a-c |
| • Aerodynamic Device               |   | 8.22.a   |
| <b>8 – Left Rear of Trailer</b>    | I | E        |
| • Tires - Tread Depth              |   | 9.1.b    |
| • Tires - Tread/Sidewall Condition |   | 9.2.a-d  |
| • Tires - Sidewall Markings        |   | 9.3.a-b  |
| • Tires - Inflation                |   | 9.4.a-c  |
| • Wheels - Hub                     |   | 9.5.a-e  |



## Inspection Procedure

### Enhanced Commercial Motor Vehicle Inspection Procedure (for motor carrier operations)

Revised: Feb. 15, 2023

#### STEP 1 PREPARE THE VEHICLE FOR INSPECTION

Ensure the CVSA Enhanced Periodic Inspection decals on each vehicle are valid.


Check the license plate, DOT number and carrier name on the truck.

Place chock blocks ahead and behind the drive axle.

Prepare the vehicle as follows:

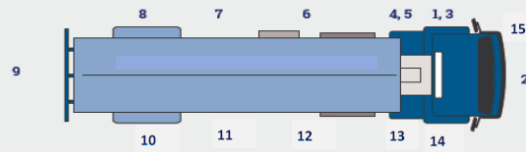
- Place the vehicle transmission out of gear and release all brakes.
- Confirm that the air system pressure is at the maximum pressure before continuing with the inspection. Note the air pressure.
- Engine must be off; key must be in the “on” position to inspect the proper operation of the lamps (i.e., tail, stop, ABS lamp, etc.).
- Observe the dash panel area when the key is turned on for the function test of the ABS malfunction lamp(s) (when applicable).
- The trailer ABS malfunction lamp(s) may also be checked during this step.

**NOTE:** Refer to Inspection Bulletin 2013-02 — Antilock Brake System Inspections.



### Inspection Procedure

Enhanced CMV Inspection (for motor carrier operations)

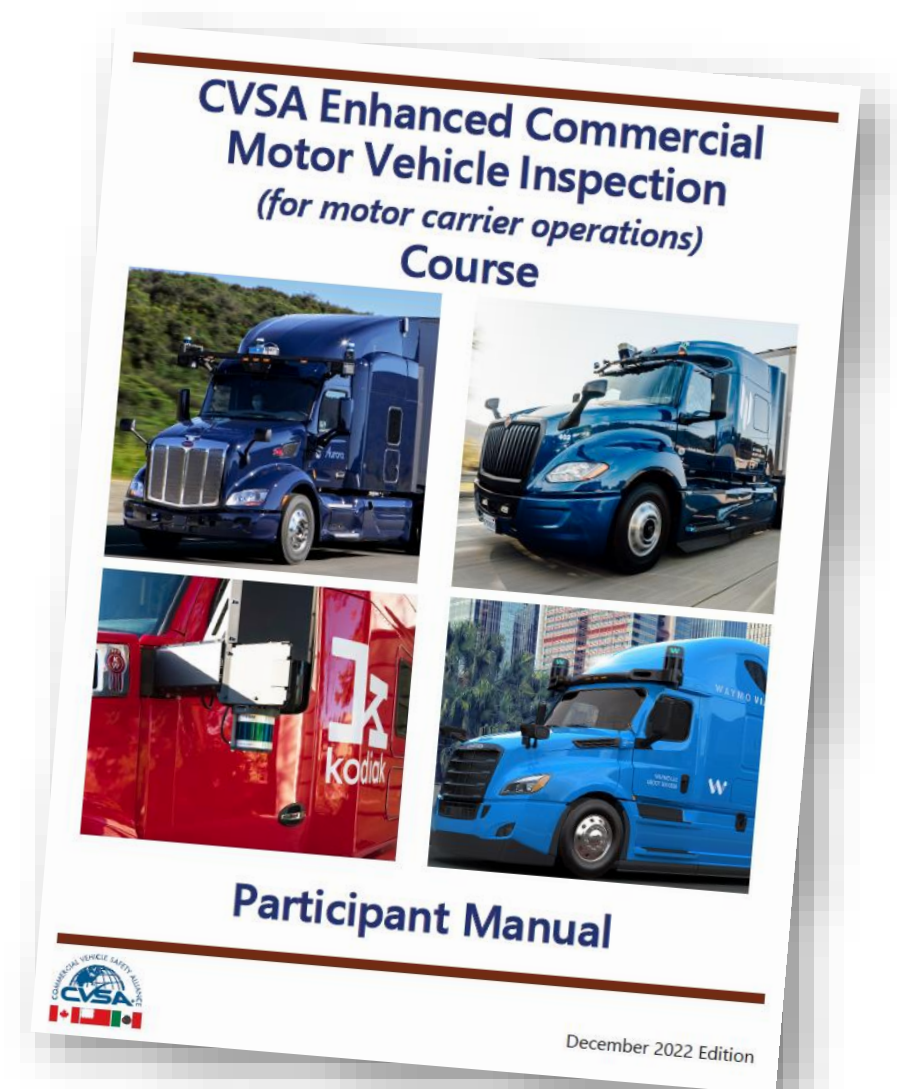


- 1 Prepare the Vehicle for Inspection**
  - Check the periodic inspection(s) for validity.
  - Check the license plate, DOT number and carrier name.
  - Place the chock blocks, put the vehicle transmission in neutral, release all the brakes, ensure the air pressure is at maximum, turn engine off and ensure the key is in the “on” position.
- 2 Inspect Front of Tractor (and the rear for lighting)**
  - Check headlamps (low and high beam), ID, clearance, turn signals, and any other required lamps for improper color, operation, mounting and visibility.
  - Ensure the ABS lamp on the trailer is marked and not activated.
  - Inspect the bumper for security.
  - Inspect ADS sensors (camera, lidar, radar)
- 3 Inspect Left Front Side of Tractor**
  - Inspect the hood and latch.
  - Check front wheel, rim, hub and tire.
  - Inspect visible portions of the frame.
  - Inspect the door for operation.
  - Check the side windows and rearview mirror.
- 4 Inspect Left Saddle Tank Area**
  - Check fuel tank area.
  - Check exhaust system, if applicable.
  - Inspect the battery for security and leaks, if visible.
  - Inspect visible portions of the frame and mounts.
- 5 Inspect Trailer Front/Rear of Tractor**
  - Check air and electrical lines.
  - Inspect the cab air suspension, shocks and reefer, if applicable.
  - Inspect the cab reflective markings
  - Inspect the headache rack or bulkhead of trailer.
  - Inspect the fenders for security.
- 6 Inspect Left Rear Tractor Area**
  - Check wheels, rims, hubs and tires
  - Check the lower, upper and slider components of the fifth wheel assembly.
  - Check all required lamps and reflective tape.
  - Check the rear window, if applicable.
  - Check the condition of the mudflaps/fenders.
  - Inspect the reefer, if applicable.
- 7 Inspect Left Side of Trailer**
  - Inspect the landing gear.
  - Check frame and body (upper/lower rails/crossmembers of trailer).
  - Check the condition of the aerodynamic device, if applicable.
  - Check the reflective tape along the side of the trailer.
- 8 Inspect Left Rear Trailer Wheels**
  - Check wheels, rims, hubs and tires.
  - Check the frame and visible suspension components.
  - Ensure the sliding subframe is secured and the pins, guides and handle are in place.
  - Inspect the condition of the mudflaps.
- 9 Inspect Rear of Trailer**
  - Inspect the reflective markings.
  - Inspect the rear impact guard, if applicable.
  - Inspect the aerodynamic device, if applicable.
  - Check the condition of the cargo doors and the security of the cargo.
  - Check the tail lamps, license plate lamp and lamp on projected load.
- 10 Inspect Right Rear Trailer Wheels**
  - Check as in step 8.
- 11 Inspect Right Side of Trailer**
  - Check as in step 7.
  - Check the spare tire security, if applicable.
- 12 Inspect Right Rear Tractor Area**
  - Check as in step 6.
- 13 Inspect Right Saddle Tank Area**
  - Check as in step 4.
- 14 Inspect Right Front Side of Trailer**
  - Check as in step 3.
- 15 Inspect Steering Axle (activate hazard lamps)**
  - Inspect hazard lamps.
  - Pull the hood of the tractor to get a better view of components.
  - Check steering system (power steering fluid), front suspension and front brake components.
  - Scribe the brakes, if necessary and determine chamber size.
  - Check the front axle, frame and crossmembers.
  - Inspect visible inside sidewall tire condition.

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## Participant Manual

- 40-hour course – classroom and practical learning
- Exam includes written and practical components
- 85% required to pass



## Course Presentation

### CVSA Enhanced Commercial Vehicle Inspection Course



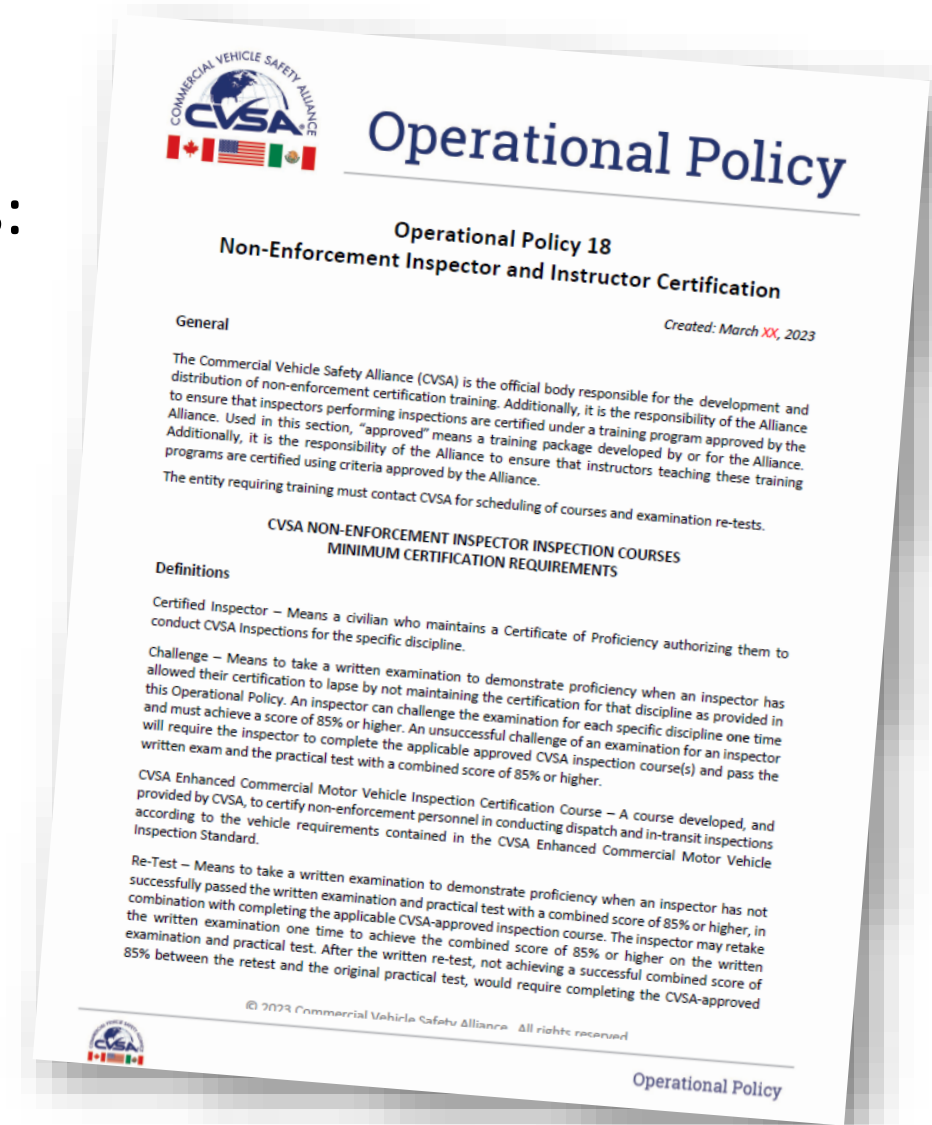
This course is intended to train individuals employed by a motor carrier to be certified to conduct the CVSA Enhanced Commercial Motor Vehicle Inspection on vehicles prior to dispatch and for in-transit inspections:

- Final Written Exam: 85%
- Practical Inspection: 85%



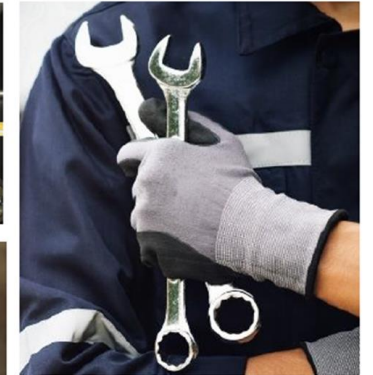
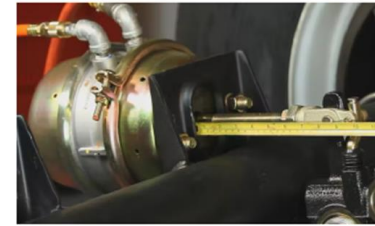
## CVSA Operational Policy 18

- Certification and Maintenance Requirements:
  - Inspectors
  - Instructors



## CVSA Periodic Commercial Motor Vehicle Inspection Standard

### CVSA Periodic Commercial Motor Vehicle Inspection Standard



### Inspection Standard Truck-Tractor/Truck/Trailers

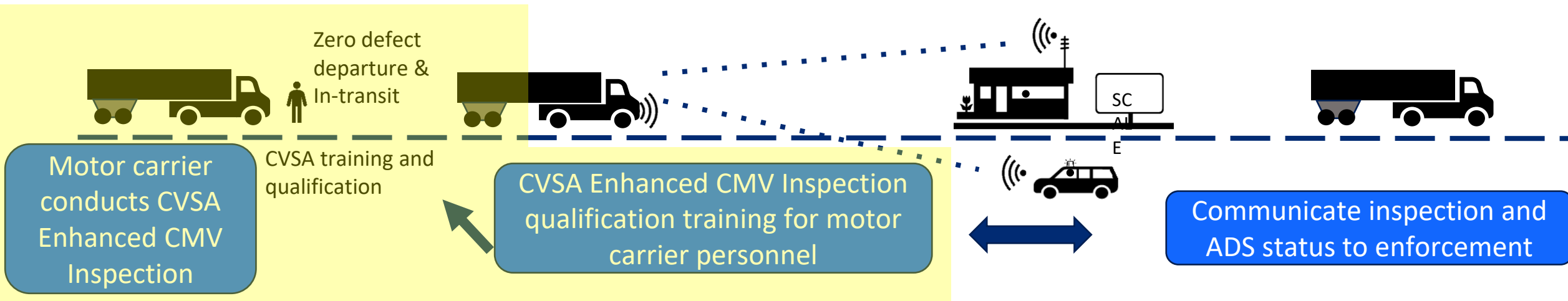
# Enhanced CMV Inspection Program



- Sept. 2019 – Sept. 2022
  - Developed the CVSA Enhanced Inspection Standard, course, checklist and procedure
  - Approved by EIM and Board of Directors in Rapid City, SD
  - 49 certified inspectors (May 2024)

## CVSA Enhanced CMV Inspection (for motor carrier operations)

- Stops for inspections limited unless imminent hazards observed



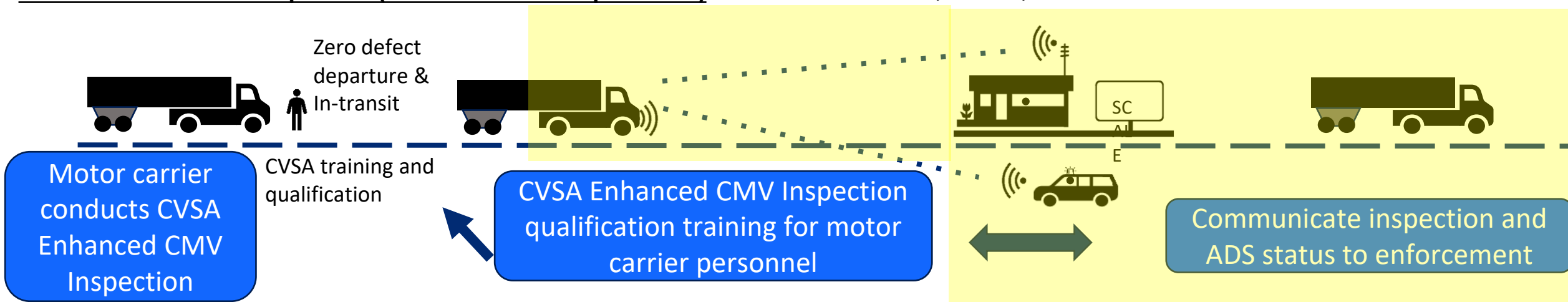
# Enhanced CMV Inspection Program



- Aug. 2023 – present
  - Develop CVSA database for enhanced inspections and inspector certification
  - Develop user interface to conduct enhanced inspections
  - Develop API's between checklist, database, enforcement and administration
  - Address parking lot issues from ADS Working Group

## CVSA Enhanced CMV Inspection (for motor carrier operations)

- Stops for inspections limited unless imminent hazards observed

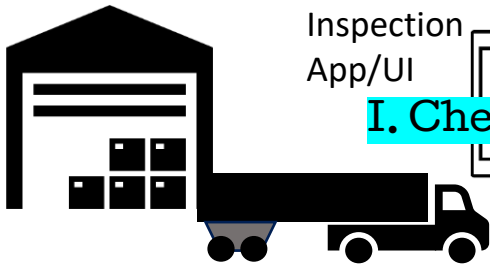


| Enhanced Inspection Conducted & Recorded | Law Enforcement Verification of Enhanced Inspection & ADS Health | Inspector Management: Certification, Maintenance, etc |
|--|--|---|
| Responsive Browser UI                    | APIs to/from Cloud   | Browser UI  |
| Reporting                                | Reporting  | Reporting   |

CVSA or  
3<sup>rd</sup> Party

Enhanced  
Inspection  
App/UI

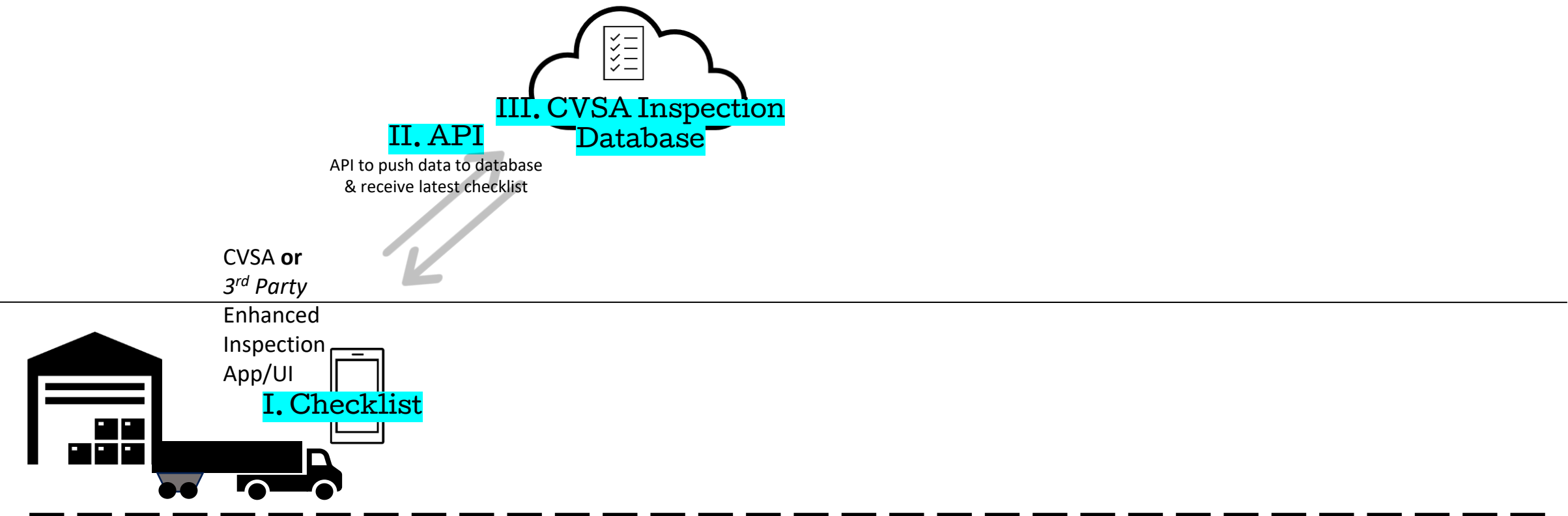
I. Checklist



|               |   |                       |
|---------------|---|-----------------------|
| Motor Carrier | Jurisdiction Roadside/Preclearance Site | CVSA & External Users |
|---------------|---|-----------------------|

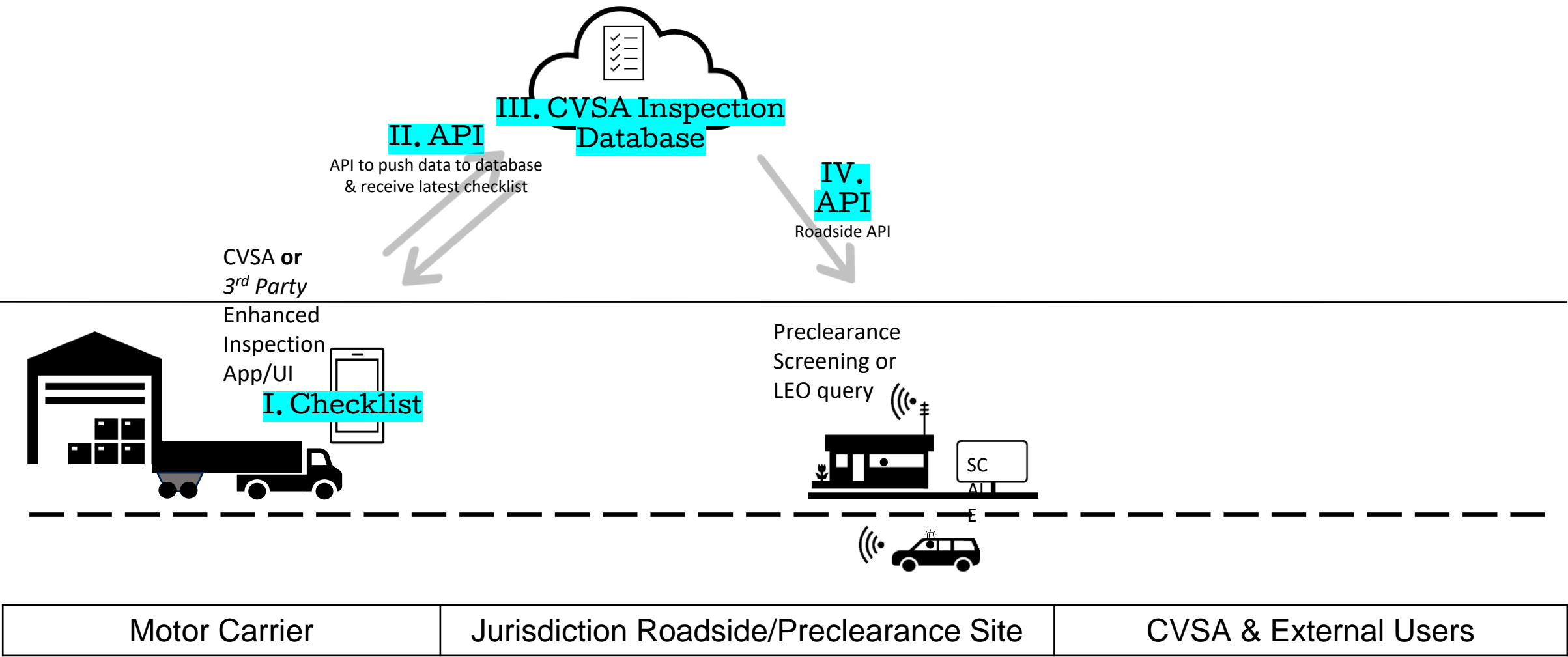


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|--|--|---|
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| Reporting                                | Reporting  | Reporting   |



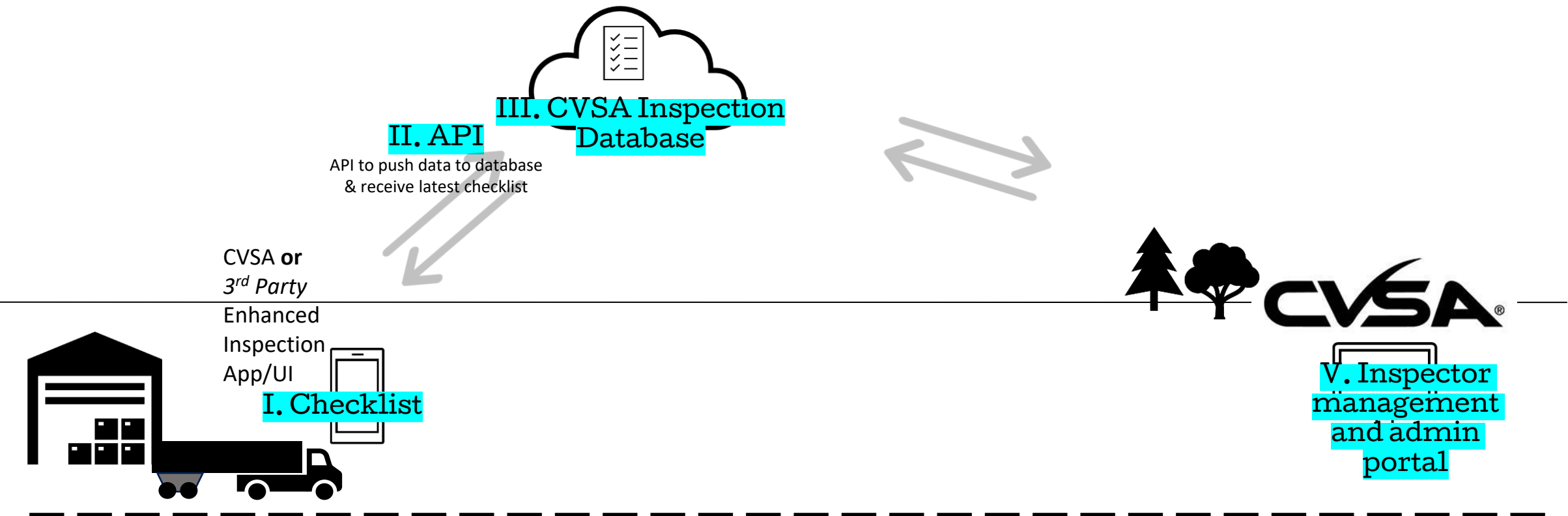
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|---------------|---|-----------------------|
| Motor Carrier | Jurisdiction Roadside/Preclearance Site | CVSA & External Users |
|---------------|---|-----------------------|

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| Reporting                                | Reporting  | Reporting   |



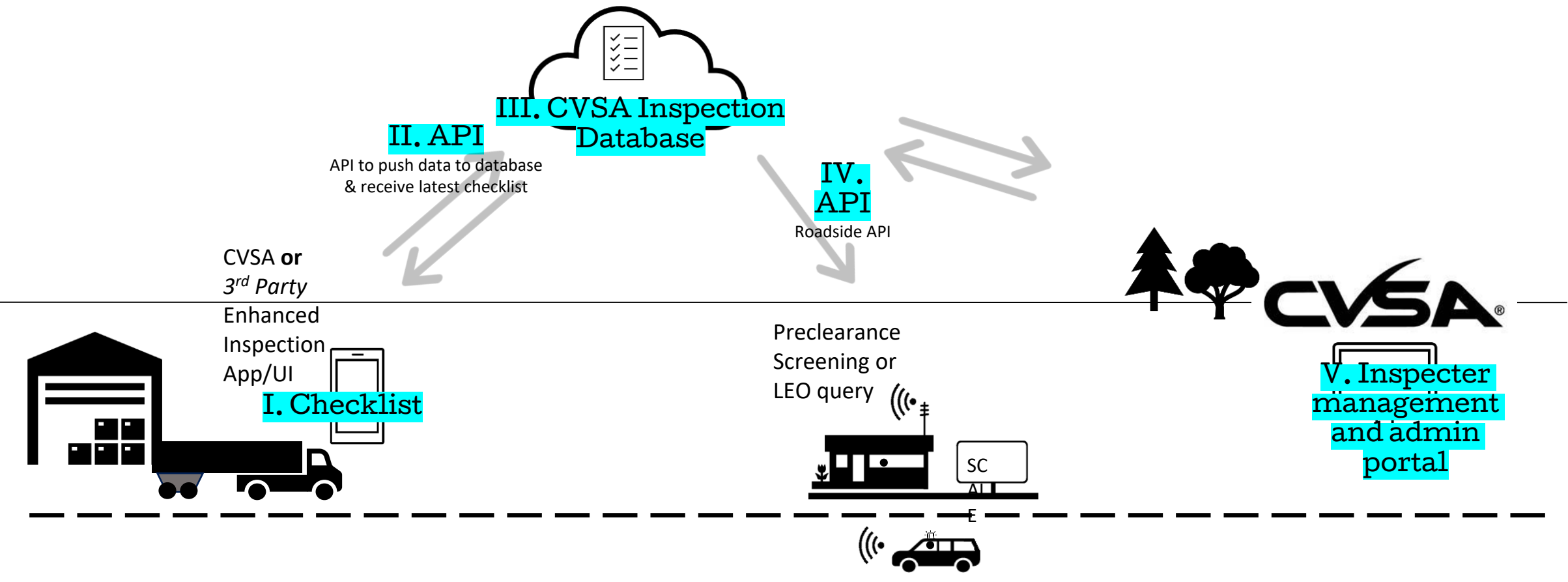
|               |   |                       |
|---------------|---|-----------------------|
| Motor Carrier | Jurisdiction Roadside/Preclearance Site | CVSA & External Users |
|---------------|---|-----------------------|

| Enhanced Inspection Conducted & Recorded | Law Enforcement Verification of Enhanced Inspection & ADS Health | Inspector Management: Certification, Maintenance, etc |
|--|--|---|
| Responsive Browser UI                    | APIs to/from Cloud   | Browser UI  |
| Reporting                                | Reporting  | Reporting   |



|               |   |                       |
|---------------|---|-----------------------|
| Motor Carrier | Jurisdiction Roadside/Preclearance Site | CVSA & External Users |
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# Hazardous Materials Discussion



- Discussion topics
  - What types of hazardous materials should be considered
    - Non-bulk, non-placarded loads
  - Training and where that fits into enhanced program
    - Depends on level and length of training needed
    - Terminal inspections by enforcement
  - Shipping paper and emergency response location
    - Regulation change or special permit
    - On the vehicle or part of a database
  - PHMSA
    - Collecting information for ANPRM
  - CVSA
    - HM Committee ad hoc to look at training and regulatory needs



# ADS Vehicle Weight

- Weight regulated by jurisdictions
- Evaluating options
  - Weigh before launch
  - On board weigh systems
  - Other solutions?
- Upload weights as part of inspection and pass with data message set
- Weigh trucks as part of oversight terminal inspections
- WIM verification, when available



# First Responder Interaction



- Standardized approach for all automated CMVs
  - Developing a training structure for first responder interaction plans
  - Uniformity of interactions
  - Training for MCSAP and non-MCSAP enforcement





# Questions?