



HEAVY-DUTY GHG CERTIFICATION

Standard vs. Enhanced Certification for
New Zero-Emission Heavy-Duty Vehicles

March 2024

ENHANCED VS. STANDARD APPLICATIONS HEAVY-DUTY VEHICLE GREENHOUSE GAS CERTIFICATION

Manufacturers of new heavy-duty zero-emission vehicle (ZEV) have the option of applying for an **enhanced** vehicle Executive Order (EO) or a **standard** vehicle EO. New HD ZEVs must obtain a vehicle EO before vehicles are introduced into commerce in California

The enhanced vehicle EO requires a certified zero-emission powertrain (ZEP), which is a separate EO that must be obtained prior to the enhanced vehicle EO. An enhanced application requires the submittal of additional documentation compared to a standard application.

PATH 1: Enhanced Vehicle EO

STEP 1

- A. Certify your ZEP families per the [CA ZEP Test Procedures](#). Refer to:
[ZEP Family Naming Convention \(Mailout ECC #2020-04\)](#)
[ZEP Certification Checklist](#)
- B. Or, use an already-certified ZEP by a different manufacturer

STEP 2

- A. Certify your ZEV families using enhanced certification requirements. Refer to:
[GHG Certification Checklist](#)
[California Test Procedures - search "Enhanced" for additional requirements](#)

Note: the ZEP EO must be issued prior to the enhanced vehicle EO. However, both applications can be submitted to CARB simultaneously.

PATH 2: Standard Vehicle EO

Certify your vehicle families using the standard Phase 2 GHG certification procedure. Refer to:

[GHG Certification Checklist](#)

Note: you can still apply for a standard vehicle EO after obtaining a ZEP EO, but you cannot apply for an enhanced EO after obtaining a standard EO (for the same vehicle family).

BENEFITS TO ZEP CERTIFICATION:

1. Eligibility for HVIP funding with ZEP EO. A vehicle EO will also be required.
2. Eligibility for criteria ABT credits with ZEP EO starting MY 2024:
 - California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles, Section 15.B.3.j
 - Can be banked for use through 2026

BENEFITS TO ENHANCED CERTIFICATION:

1. Advanced Clean Truck (ACT)
 - Beginning MY 2024, enhanced certification is required to receive ZEV credit per the Advanced Clean Trucks regulation (see regulation for applicability)
 - Low-volume manufacturers, as defined by the ACT regulation, are exempt
2. . Zero-Emission Airport Shuttle (ZEAS) Regulations
 - For airport shuttle fleets to comply with ZEAS percentage requirements, 2026 and later model year heavy-duty ZEVs must be certified to the Enhanced Procedures to count towards ZEAS fleet percentage compliance