

Morrison Bros. Co.
Phase I EVR System for Aboveground Storage Tanks
Installer/Contractor Training Plan

Goals

The purpose of this course is to educate individuals on the proper installation, operation, and maintenance of Morrison Bros. Co. equipment that can be used per the CARB approved EO VR-402-B Phase 1 EVR for aboveground storage tanks.

Administrative Requirements

1. A listing of certified CARB EVR equipment technicians will be available on the Morrison Bros. Co. website or with the following link to the online directory of [CARB Certified Professionals](#) .
2. After successfully passing the test, a certificate of course completion will be issued. Each certified technician will receive an 8.5" X 11" certificate and a wallet sized card that shows a unique cataloged number.
3. The course will be web based; self-taught by video and written materials. Candidates will register online at the Morrison Bros. Co. website www.morbros.com . All materials needed will be available on the website.
4. The course can be completed at any time on the Morrison Bros. Co. website. Materials can be viewed for any duration. After reviewing the training materials, the test must be completed during a 2 hour time block. If it is not completed in that time frame it must be retaken from the beginning. A passing grade of 80% on the exam will be required. If a passing grade is not obtained within the 2 hour time block, then the incorrectly answered questions will be presented and can be corrected. There are no fees required to become a Morrison certified technician.
5. Contact information
Department: Customer Service
Phone: (800) 553-4840
Email: custserv@morbros.com

Training Plan

I. Training Material

Candidates will be provided with an overview of the following subjects.

A) Background

1. ARB Phase I EVR Executive Orders

- [Morrison Phase I EVR System Executive Order VR-402-B](#)
- [Morrison Phase I EVR Installation, Operation and Maintenance \(IOM\) Manual](#)

2. Proper documentation and permitting requirements

- [Morrison Proper documentation and permitting requirements](#)
- Air Pollution Control Districts
District Map <http://www.arb.ca.gov/desig/adm/basinconty.htm>
District Contact List <http://www.arb.ca.gov/capcoa/roster.htm>

3. Difference between Morrison Bros. Co. EVR and pre-EVR parts

Morrison EVR parts will be identified as in Exhibit 1 of Executive Order VR-402-B. Components that are not exempt will contain a round silver tag or rectangular yellow label indicated by "EVR"



B) [Pre-Installation](#)

1. Checklists
2. Thread Tightening requirements
3. Proper tools
4. Specialized tools (Morrison products do not require special tools)
5. Site prep
6. Safety

C) Installation and Maintenance Instructions

1. [Drop tube](#)
2. Overfill prevention devices
 - [OPV Fig. 9095A 2 Inch with Adaptor](#)
 - [OPV Fig. 9095A 2 Inch without Adaptor](#)
 - [OPV Fig. 9095A 3 Inch with Adaptor](#)
 - [OPV Fig. 9095A 3 Inch without Adaptor](#)
3. [Spill containers](#)
4. [Emergency vents](#)
5. Adaptors, caps and couplers
 - [Product Cap & Adaptor Fig. 927-735DC](#)
 - [Vapor Recovery Cap & Adaptor Fig. 323](#)
 - [Dry Disconnect Coupler Fig. 928](#)
6. [Monitoring caps and adaptors](#)
7. [P/V vent](#)
8. [Gauge port](#)
9. Tank gauge
 - [Tank Gauge Fig. 818](#)
 - [Tank Gauge Fig. 918](#)
10. Diffusers
 - [Diffuser Fig. 539AS 2 Inch](#)
 - [Diffuser Fig. 539AS 3 Inch](#)
 - [Diffuser Fig. 539AT](#)

D) [Troubleshooting](#)

II. Video Demonstration

- A) [Spill Container](#)
- B) Diffuser
 - [Diffuser Fig. 539AS Video](#)
 - [Diffuser Fig. 539AT Video](#)
- C) Overfill Prevention Device
 - [OPV Fig. 9095A Part 1 Video](#)
 - [OPV Fig. 9095A Part 2 Video](#)
- D) [Drop Tube](#)
- E) [Emergency vents](#)
- F) [Adaptors, caps and couplers](#)
 - [Product Cap & Adaptor Fig. 927-735DC Video](#)
 - [Vapor Recovery Cap & Adaptor Fig. 323 Video](#)
 - [Dry Disconnect Coupler Fig. 928 Video](#)
- G) [Monitoring caps and adaptors](#)
- H) [P/V vent valves](#)
- I) [Gauge port](#)
- J) [Tank gauge](#)

III. Compliance Testing

A) How to conduct the following ARB test procedures:

1. [TP-201.1E: Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves](#)
2. [TP-206.3: Determination of Static Pressure Performance of Vapor Recovery Systems at Gasoline Dispensing Facilities with Aboveground Storage Tanks](#)

B) Compliance Testing Troubleshooting

In the event that the pressure decay test fails, soap all of the connections and externally exposed sealing surfaces and look for bubbles. If air bubbles are found at a connection, verify the connection has been properly tightened. If air bubbles are found at an externally exposed sealing surface, verify that the seal and seat are free of foreign materials and not cut or otherwise damaged. If the problem is not resolved with these steps, replace the item.

Exam

The course can be completed at any time on the Morrison Bros. Co. website www.morbros.com. Materials can be viewed for any duration. After studying the training materials, candidates can take an online exam on the website. The test must be completed during a 2 hour time block. If it is not completed in that time frame, it must be retaken from the beginning. The test will include a minimum of 40 questions; multiple choice and/or true or false. A passing grade of 80% on exam will be required. If a passing grade is not obtained within the 2 hour time block, the incorrectly answered questions will be presented and can be corrected. When the 2 hour time block has expired, the test will be submitted and graded as is; if a passing grade is not achieved, the test must be retaken from the beginning. Once passing the exam and approval from Morrison Bros. Co., an email will be sent to the individual with a certificate and wallet card.

Example of wallet card

	MORRISON BROS. CO.	
This is to certify that		Certification No.:000123
JOHN DOE		E.O. No. VR-402-B
Company Name		Certification Date: Feb. 12, 2014
		Expiration Date: Feb. 12, 2018
has completed the training course on Morrison Bros. Co. equipment certified by the California Air Resources Board Executive Order VR-402-B.		
<i>Completion of this training course does not create a warranty or guarantee by Morrison Bros. Co. of your installation and/or maintenance of EVR Phase I systems. All EVR Phase I systems must be installed and maintained in accordance with manufacturer instructions and procedures.</i>		

Re-certification

Re-certification will be required after 4 years from the date of issue. If the certification expires; the individual must request to be recertified from Morrison Bros. Co. During the time an individual is certified, they will be notified by Morrison Bros. Co. of any changes to the training plan, instructions, or Executive Order. Depending upon the changes, it may be necessary for the individual to re-certify prior to the 4-year expiration date. Morrison Bros. Co. will notify the California Air Resources Board of any changes to the training program so they can be reviewed before implementation.