



VST North America GREEN MACHINE Contractor Certification Training

The tab key can be used to navigate through this document.

Student's Company Information

Company Name:		
Company Street:		
Company City:	Company State:	Company Zip:
Company Phone:	Company Fax:	
Type of Contractor:	<input type="checkbox"/> General Contractor <input type="checkbox"/> Electrical Contractor <input type="checkbox"/> Vapor Piping Contractor	

Student's Information

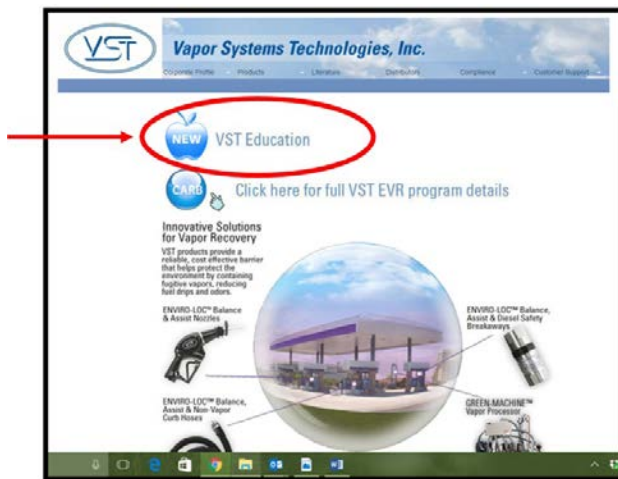
Last:	First:
Student Cell Phone:	Student E-Mail:

Registration Instructions

- Fill out one registration form per student.
- Direct all paperwork and questions to: Susie McLaughlin * mclaughlin@vsthose.com * 937-704-9333

Training Instructions

- Go to www.vsthose.com.
- Click the VST Education button, then click the **video** link to "Installation – General Contractor" or "Installation – Electrical Contractor" or "Installation – Vapor Piping Contractor."



- Watch the video.
- Get the quiz from the GC or VST in .pdf format.
- Take the quiz and email/mail/fax it back to VST.
- VST will grade the quiz and email your certification.

NA GREEN MACHINE – General Contractor Quiz

Must score
18 of 22
questions
correctly to
pass this
quiz.

- 1.) Where should the GREEN MACHINE be installed?
- On a concrete pad, as far away from the vent risers as possible
 - On a concrete pad, at least 100 feet away from the vent risers
 - On a concrete pad within 100 feet of the vent risers, but as close as possible
 - On a concrete pad inside the underground storage tank
- 2.) VST recommends that a forklift be used to support the GREEN MACHINE to install the legs. How many legs are to be installed?
- 4
 - 2
 - 0
 - 6
- 3.) True or false: VST supplies the hardware to install the GREEN MACHINE to the concrete pad.
- True
 - False
- 4.) How can the general contractor send Appendix A Check-Out Form back to VST?
- Email
 - Fax
 - Regular Mail
 - All of the above
- 5.) What slope is required for all vapor piping?
- Maximum $\frac{1}{4}$ " per foot away from the GREEN MACHINE
 - Minimum $\frac{1}{4}$ " per foot away from the GREEN MACHINE
 - Maximum $\frac{1}{4}$ " per foot towards the GREEN MACHINE
 - Minimum $\frac{1}{4}$ " per foot towards the GREEN MACHINE
- 6.) True or False: It is OK for traps to exist anywhere in the piping.
- True
 - False

NA GREEN MACHINE – General Contractor Quiz

- 7.) What is the correct order to install the pipe fittings between the vent risers and the GREEN MACHINE (starting from the vent risers)?
- Ball valve, union, tee with a plug
 - Union, ball valve, tee with a plug
 - Tee with a plug, union, ball valve
 - Ball valve, union, ball valve
- 8.) Which of the following is true of the drain line?
- It runs from the vapor inlet pipe to the vapor return line
 - It has a loop
 - The top of the loop is below the bottom of the vapor inlet line
 - All of the above
- 9.) Is the Piping Contractor required to install a ¼" NPT Adapter in the ¼" diameter drain line?
- Yes
 - No
 - There is no adapter
 - Depends on the piping arrangement
- 10.) True or False: The ball valves between the GREEN MACHINE and the vent risers are not lockable.
- True
 - False
- 11.) After the piping for the GREEN MACHINE is complete, should the 3-way valve below the pressure sensor be open (handle is vertical) or closed (handle is horizontal)?
- Closed
 - Open
- 12.) Who provides the lockable ball valves?
- The General Contractor
 - The Piping Contractor
 - The station owner
 - Vapor Systems Technologies

NA GREEN MACHINE – General Contractor Quiz

- 13.) How many wires need to be pulled from inside the GDF hut out to the GREEN MACHINE area?
- 9 (and 1 cable)
 - 3 (and 1 cable)
 - 12 (and 1 cable)
 - None
- 14.) Which of the following must be installed near the GREEN MACHINE?
- Safety Disconnect Switch.
 - 115-VAC Outlet
 - Emergency Shut-Off Switch
 - Safety Disconnect Switch & 115-VAC Outlet
 - All of the above
- 15.) True or false: All terminals are labeled with wire IDs in both the VST Control Panel and GREEN MACHINE junction box.
- True
 - False
- 16.) After installation is complete, where should the carabiner clip be installed?
- To the VST Control Panel power switch, locking it in the “ON” position
 - To the VST Control Panel power switch, locking it in the “OFF” position
 - Anywhere on the VST Control Panel
 - Nowhere, it can be thrown away
- 17.) How many wires are required to connect the VST Control Panel to the station Emergency Shut-Off (ESO) circuit?
- 1
 - 2
 - 3
 - 4
- 18.) True or false: The VST Control Panel needs to connect to a 4-Relay Module in the Tank Monitor.
- True
 - False

NA GREEN MACHINE – General Contractor Quiz

19.) True or false: The Electrical Contractor is required to test the GREEN MACHINE after the electrical installation is complete.

- True
- False

20.) Both flexible and rigid conduit can be used for the electrical connection to the GREEN MACHINE, but VST recommends:

- Flexible conduit
- Rigid conduit

21.) True or false: The GREEN MACHINE is installed in a Class I, Division 2 hazardous location?

- True
- False

22.) What size breaker in the main distribution panel is required to power the VST Control Panel?

- 10 amps
- 15 amps
- 20 amps
- 40 amps