




STATIONARY BATTERY VISUAL INSPECTION & PROBLEM IDENTIFICATION SHORTCOURSE

Developed by
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*Digital Presentation by
CA Rhodes*

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TERMINAL OBJECTIVE

Upon completion of this training, the participant will understand:
The basic terminology necessary to be able to perform visual inspections of stationary batteries; the components of a stationary batteries that may be visually inspected; how to perform a detailed visual inspection of a stationary battery; and the types of issues/problems that can be identified during a visual inspection

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ENABLING OBJECTIVES


The standard for each of the following objectives is the material contained in the course materials provided to the participant.

Given the course materials the participant shall be able to:

- **V01** Recall the definition of a CELL, a BATTERY and an ELEMENT
- **V02** Recall the basic components of a stationary battery and which of these may be visually inspected
- **V03** Recall the definition of a VENTED CELL and a VALVE REGULATED CELL
- **V04** Recognize the DATE CODE on a cell and how it factors into an inspection
- **V05** State the color of the positive and negative plates in a healthy, fully charged lead-acid cell
- **V06** State the visual checks that would be made on the cell plates, straps, separators and retainers (if used)




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ENABLING OBJECTIVES *(continued)*

- **V07** State the visual checks that would be made on the jar, cover, and jar-to-cover seals
- **V08** State the visual checks that would be made on the flame arrestor
- **V09** State the visual checks that would be made on the electrolyte
- **V10** State the visual checks that would be made on the cell posts, the post-to-cover seal, the intercell connections, cable connections and cable supports
- **V11** State the visual checks that would be made on the sediment in the cells
- **V12** State the checks that would be made on the battery rack or cabinet, including seismic equipment, ground connections and spill containment system



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	<h2>ENABLING OBJECTIVES</h2> <p><i>(continued)</i></p>
	<ul style="list-style-type: none">• V13 Recall how hydration can be identified• V14 Recall how copper contamination can be identified• V15 Recall how excess calcium can be identified• V16 Recall how plate shorts can be identified by a visual inspection• V17 Recall how post (i.e., crevice or nodular) corrosion can be identified
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