

# LEAD-ACID STATIONARY BATTERY MANUFACTURING OVERVIEW

Developed by  
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CA Rhodes*

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## TERMINAL OBJECTIVE

Upon completion of this training, the participant will understand:

how stationary lead-acid batteries are manufactured; how pure lead and lead-alloys are used in the manufacture of cells; the processes by which plates are manufactured; the steps necessary to transform the assembled cell to a storage cell capable of storing energy; and the testing performed to ensure that the cells manufactured will meet the manufacturer's specifications.



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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:

- R01 Recall where pure lead and lead-alloys are used in manufacturing stationary batteries.
- R02 Recall how lead-oxides are manufactured and what the oxides are used for.
- R03 Recall the three basic ingredients of the lead pastes used in the manufacture of flat (or pasted) plates.
- R04 Recall two methods of casting grids used in the manufacture of lead-acid stationary batteries.
- R05 Recall how plates are processed from casting to insertion of the plates in the cell.
- R06 Recall the steps used to process the cells through preparation for their shipment once the plates have been installed in the cell.

