



## Equipment IV

# Silos, Bins, Conveyors, & Scales

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### Course Objectives

1. Describe the purpose and function of a silo and bin.
2. Identify the components of a silo.
3. Explain the theory of operation of a silo and bin.
4. Describe typical applications of silos and bins in chemical processing.
5. Identify hazards associated with the operation of a silo or bin.
6. Describe issues related to safe operation of a silo and bin.
7. Describe the type of personal protective equipment used around silos and bin operations.
8. Identify energy sources and other considerations for lockout/tagout of a silo or bin.



### Key Terms (Define the following)

silo - \_\_\_\_\_  
\_\_\_\_\_

tower silo - \_\_\_\_\_  
\_\_\_\_\_

rotary valve - \_\_\_\_\_  
\_\_\_\_\_

bins - \_\_\_\_\_  
\_\_\_\_\_

dust collection system - \_\_\_\_\_  
\_\_\_\_\_

pneumatic conveying - \_\_\_\_\_  
\_\_\_\_\_

certified scales - \_\_\_\_\_  
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## Principles





## Questions

1. List the hazards of dust

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2. List some general safety concerns when operators are working around bulk solids.

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