

## 6.0 The Goal of Leak Control

### OBJECTIVE 6.1: CONTROL OF LEAKS BY UP RIGHTING CONTAINER

(Demonstrate the ability to perform leak control from containers and packages )

Intent This objective provides a framework for the evaluation of an the Emergency Response Agency's ability to provide leak control capability for all types and sizes containers.

Note: This objective focuses on the methodologies used to control releases from containers and or packages. The Emergency Response Agency demonstrates the knowledge, skills and technical capability to perform this work task in an incident/accident.

	yes	no	n/a	n/o	Time
Was this Objective Met	_____	_____	_____	_____	_____
Evaluator Signature	_____				Date _____

#### Criteria:

6.1.1 Did Emergency Response Agency demonstrate the ability to rotate the container to stop the leak?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

6.1.2 Did Emergency Response Agency demonstrate the knowledge, skills & capability to upright the container by using a mechanical device to assist in the up righting procedure?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

6.1.3 Did Emergency Response Agency demonstrate the knowledge, skills & capability to physically lift the container to a position to control the leak?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

#### Explanation:

The Emergency Response Agency should demonstrate the capability to perform leak control.

The physical factors associated with the container will help determine the most appropriate type of leak control. As an example a barrel lifter might be the most appropriate lifting device for up righting a 55 gallon container; while other containers may be small enough to physically pick up without the assistance of any tool or mechanical device.

The Emergency Response Agency should demonstrate the capability to use the necessary tactics concerning the release material and evaluate the potential for exposure to the public's

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health and safety and the environment .



Explanation:

The Emergency Response Agency should demonstrate the capability to use pneumatic devices to control the leak using manufacturers recommended safe work practices for pneumatic tools and equipment.

The Emergency Response Agency should demonstrate the capability to use the equipment and provide protective actions for the responders during leak control operations.

**OBJECTIVE 6.3: CLOSING AND TIGHTENING OF CAPS AND LIDS**  
 (Demonstrate the ability to perform leak control procedures by the selection of the proper tools and equipment necessary for various types of containers)

Intent This objective provides a framework for the evaluation of an the Emergency Response Agency's ability to secure openings and closures using nationally accepted work practices as well as proper industry standards.

Note: This objective focuses on the technical ability to select the proper tools and equipment to contain the leak in the container, and stabilize an Incident/Accident.

	yes	no	n/a	n/o	Time
Was this Objective Met	___	___	___	___	___
Evaluator Signature	_____				Date _____

Criteria:

6.3.1 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select the correct tools for the container (as examples: several types of bung wrenches for drums, or product specific kits, the proper chlorine kit for the container involved, propane)?

yes	no	n/a	n/o	time
___	___	___	___	___

6.3.2 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select non-sparking tools?

yes	no	n/a	n/o	time
___	___	___	___	___

6.3.3 Did Emergency Response Agency demonstrate the knowledge, skills & capability to carry additional bung/vent plugs, caps of assorted sizes and materials?

yes	no	n/a	n/o	time
___	___	___	___	___

Explanation:

The Emergency Response Agency should demonstrate the capability to assess the tools and equipment necessary to perform the work task.

The Emergency Response Agency should demonstrate the capability to use the proper tools and equipment to perform leak control operations safely. Activities concerning the risk(s) associated with performing leak control with the released material and the potential for exposure to the responder's health and safety and the environment are evaluated under the goal of Protection.

<b>OBJECTIVE 6.4: PLUGGING AND PATCHING CONTAINERS</b>					
(Demonstrate the ability to perform plugging and patching operations using initiative)					
<u>Intent</u> This objective provides a framework for the evaluation of an the Emergency Response Agency's ability to use their initiative at solving problems associated with leaks in containers. This requires the individual to use their knowledge and skills to select from a wide variety of plugging and patching equipment the most appropriate methods for leak control.					
<u>Note:</u> This objective focuses on the technical identification of compatible tools and equipment that once used, will prevent the material from leaving the container thereby stabilizing the <u>Incident/Accident</u> .					
Was this Objective Met	yes	no	n/a	n/o	Time
	_____	_____	_____	_____	_____
Evaluator Signature	_____				Date _____

Criteria:

6.4.1 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select product compatible tools and equipment?

yes                      no                      n/a                      n/o                      time  
 \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_

6.4.2 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select the most efficient tools and equipment available (in other words, equipment in the inventory that is available on scene, not necessarily the tools and equipment that were brought into the hot zone)?

yes                      no                      n/a                      n/o                      time  
 \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_

6.4.3 Did Emergency Response Agency demonstrate the knowledge, skills & capability to use equipment properly in the performance of leak control?

yes                      no                      n/a                      n/o                      time  
 \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_

6.4.4 Did Emergency Response Agency demonstrate the knowledge, skills & capability to control the leak (meaning not able to stop the leak, but having the ability to slow it down)?

yes                      no                      n/a                      n/o                      time  
 \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_

6.4.5 Did Emergency Response Agency demonstrate the knowledge, skills & capability to stop the leak?

yes                      no                      n/a                      n/o                      time  
 \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_

Explanation:

The Emergency Response Agency should demonstrate the capability to personal initiative to accomplish the work task of leak control.

This may involve using initiative, and resourcefulness at overcoming the problems of a given situation where better tools and equipment may exist, but are not available for use at this incident. Personnel may be forced to adapt and improvise to overcome a problem in order to accomplish the work task of leak control. Safety must always be a primary concern and recklessness should not be misinterpreted for initiative.

**OBJECTIVE 6.5: CLOSING VALVES**  
 (Demonstrate the ability to operate different types of valves )

Intent This objective provides a framework for the evaluation of an the Emergency Response Agency's ability to understand the operation of different types of valves and their specific function and operation.

Note: This objective focuses on the technical identification of the different types of valves and their purpose in the operating systems in which they are being used.

	yes	no	n/a	n/o	Time
Was this Objective Met	___	___	___	___	___
Evaluator Signature	_____				Date _____

Criteria:

6.5.1 Did Emergency Response Agency demonstrate the knowledge, skills & capability to identify the type of valve involved?

yes	no	n/a	n/o	time
___	___	___	___	___

6.5.2 Did Emergency Response Agency demonstrate the knowledge, skills & capability to trace lines to confirm the valve as being the correct valve?

yes	no	n/a	n/o	time
___	___	___	___	___

6.5.3 Did Emergency Response Agency demonstrate the knowledge, skills & capability to operate the valve?

yes	no	n/a	n/o	time
___	___	___	___	___

6.5.4 Did Emergency Response Agency demonstrate the knowledge, skills & capability to repair the valve?

yes	no	n/a	n/o	time
___	___	___	___	___

Explanation:

The Emergency Response Agency should demonstrate the capability to assess the physical factors affecting the release of the product and the ramifications of using the valves and piping systems as a means of control.

<b>OBJECTIVE 6.6: SHUTTING DOWN PUMPING SYSTEMS</b>					
(Demonstrate the ability to shut down systems and not escalate the incident. )					
<u>Intent</u> This objective provides a framework for the evaluation of an the Emergency Response Agency's ability to control leaks by evaluating systems and system components and determining the appropriate systems that require shut down as part of leak control.					
<u>Note:</u> This objective focuses on the technical identification of systems, the assessment of the associated hazards & risks by shutting down the systems. The Emergency Response Agency should demonstrate the capability to control the source of a release, contain the material, and stabilize an <i>Incident/Accident</i> .					
	yes	no	n/a	n/o	Time
Was this Objective Met	___	___	___	___	___
Evaluator Signature	_____				Date _____

Criteria:

6.6.1 Did Emergency Response Agency demonstrate the knowledge, skills & capability to identify the system responsible for causing the release?

yes                      no                      n/a                      n/o                      time  
 \_\_\_\_\_

6.6.2 Did Emergency Response Agency demonstrate the knowledge, skills & capability to identify auxiliary systems that will be affected by the shutdown of this system?

yes                      no                      n/a                      n/o                      time  
 \_\_\_\_\_

6.6.3 Did Emergency Response Agency demonstrate the knowledge, skills & capability to properly shut down the system?

yes                      no                      n/a                      n/o                      time  
 \_\_\_\_\_

6.6.4 Did Emergency Response Agency demonstrate the knowledge, skills & capability to lock down and tag the system?

yes                      no                      n/a                      n/o                      time  
 \_\_\_\_\_

Explanation:

The Emergency Response Agency should demonstrate the capability to assess the physical factors affecting the shutting down of systems and that effect on the entire system.

The Emergency Response Agency should demonstrate the capability to use the analysis of information to guide personnel in decision making that results in following the proper sequence in shutting down the system.