

VERSION: V2.2.1 DATE PUBLISHED: 04/18/22 DEFINITION: Device that detects elevated levels of carbon monoxide and signals via auditory or visual alarm in order to prevent ca	
DEFINITION: Davies that detects elevated levels of carbon managide and signals via auditory or visual electronic argument as	
DEFINITION: Device that detects elevated levels of carbon monoxide and signals via auditory or visual alarm in order to prevent ca monoxide poisoning.	ssor;
PURPOSE: Detect and signal elevated carbon monoxide levels to prevent poisoning.	ssor;
COMMON COMPONENTS: Sensor; power source / battery; casing; wiring; base; alarm / alarm circuit; strobe light; LCD panel / visual display; microproce circuit board	
LOCATION: Unit Where required as described in the Deficiency Criteria	
Inside Where required as described in the Deficiency Criteria	
Outside None	
MORE INFORMATION: This is not a replacement for a code inspection. All requirements of IFC Sections 915 and 1103 must be met, even though the criteria listed herein will be inspected for in a NSPIRE inspection.	only
DEFICIENCY I: Carbon monoxide alarm is missing, not installed, or not installed in a proper location. LOCATION: Unit Inside	
DEFICIENCY 2: Carbon monoxide alarm is obstructed.	
LOCATION: Unit Inside	
DEFICIENCY 3: Carbon monoxide alarm does not produce audio or visual alarm when tested.	
LOCATION: Unit Inside	



Deficiency I - Unit:

CARBON MONOXIDE ALARM IS MISSING, NOT INSTALLED, OR NOT INSTALLED IN A PROPER LOCATION.

DEFICIENCY CRITERIA:

Carbon monoxide alarm is missing (i.e., evidence of prior installation, but is now not present or is incomplete).

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One (I) or more of the following scenarios exists:

- 1. Unit contains a fuel-burning appliance or fuel-burning fireplace, and a carbon monoxide alarm is not installed:
 - a. in the immediate vicinity of each sleeping area.

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- b. within each sleeping area.
- Sleeping area or bathroom attached to sleeping area:
 - a. contains a fuel-burning appliance or fuel-burning fireplace.
 - has adjacent spaces from which byproducts of combustion gases can flow.
 AND
 - c. Carbon monoxide alarm is not installed in each sleeping area.
- 3. Unit or sleeping area is served by a forced-air furnace that is located elsewhere and a carbon monoxide alarm is not installed:
 - a. in the immediate vicinity of each sleeping area.

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b. within each sleeping area.

OR

- within the room or area with the first duct register and the carbon monoxide alarm signals are automatically transmitted to an approved location.
- 4. Unit or sleeping area is located in a building that contains a fuel-burning appliance or fuel-burning fireplace and:
 - a. a carbon monoxide alarm is not installed in an approved location between the fuel-burning appliance or fuel-burning fireplace and the Unit or sleeping area.
 - a carbon monoxide alarm is not installed on the ceiling of the room containing the fuelburning appliance or fuel-burning fireplace.

OR

- the Unit or sleeping area has communicated openings to the fuel-burning appliance or fuel-burning fireplace and a carbon monoxide alarm is not installed:
 - i. in the immediate vicinity of each sleeping area.

OR

- ii. within each sleeping area.
- 5. Unit or sleeping area is located one (I) story or less above or below an attached private garage that:
 - does not have natural ventilation.

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b. is enclosed and does not have a ventilation system for vehicle exhaust.

- Carbon monoxide alarm is not installed:
 - i. in the immediate vicinity of each sleeping area.

OR

ii. within each sleeping area.



HEALTH AND SAFETY DETERMINATION: Life-Threatening The Life-Threatening category includes deficiencies that, if evident in the home or on the

property, present a high risk of death to resident.

CORRECTION TIMEFRAME: 24 hours
HCV PASS / FAIL Fail

HCV — CORRECTION TIMEFRAME: 24 hours

INSPECTION PROCESS:

OBSERVATION: - Identify all fuel-burning appliances and fuel-burning fireplaces.

- Identify all adjacent spaces from which byproducts of combustion gases can flow (e.g., attached garage, mechanical

room, laundry).
- Identify all areas used for sleeping.

- If a fuel-burning appliance, fuel-burning fireplace, or adjacent space from which byproducts of combustion gases can flow is present, then verify that a carbon monoxide alarm is installed within each sleeping area and in the immediate

vicinity of each sleeping area.

REQUEST FOR HELP: Ask the POA to identify the following within the Unit:

fuel-burning appliances; andfuel-burning fireplaces; and

- adjacent spaces from which byproducts of combustion gases can flow.

ACTION: - None

More Information: - None



DEFICIENCY I — INSIDE:

CARBON MONOXIDE ALARM IS MISSING, NOT INSTALLED, OR NOT INSTALLED IN A PROPER LOCATION.

DEFICIENCY CRITERIA:

Carbon monoxide alarm is missing (i.e., evidence of prior installation, but is now not present or is incomplete).

OR

One (I) or more of the following scenarios exists:

- 1. Classroom contains a fuel-burning appliance or fuel-burning fireplace, and a carbon monoxide alarm is not installed:
 - a. in the immediate vicinity of each sleeping area.

OR

- b. within each sleeping area.
- 2. Sleeping area or bathroom attached to sleeping area:
 - a. contains a fuel-burning appliance or fuel-burning fireplace.

OR

- b. has adjacent spaces from which byproducts of combustion gases can flow.
- c. Carbon monoxide alarm is not installed in each sleeping area.
- 3. Sleeping area or classroom is served by a forced-air furnace that is located elsewhere and a carbon monoxide alarm is not installed:
 - a. in the immediate vicinity of each sleeping area.

OR

b. within each sleeping area.

OR

- c. within the room or area with the first duct register and the carbon monoxide alarm signals are automatically transmitted to an approved location.
- 4. Sleeping area or classroom is located in a building that contains a fuel-burning appliance or fuel-burning fireplace and:
 - a carbon monoxide alarm is not installed in an approved location between the fuel-burning appliance or fuel-burning fireplace and the sleeping area or classroom.

OR

 a carbon monoxide alarm is not installed on the ceiling of the room containing the fuelburning appliance or fuel-burning fireplace.

OR

- c. the sleeping area or classroom has communicated openings to the fuel-burning appliance or fuel-burning fireplace and a carbon monoxide alarm is not installed:
 - i. in the classroom.

OR

ii. in the immediate vicinity of each sleeping area.

OR

- iii. within each sleeping area.
- Sleeping area or classroom is located one (I) story or less above or below an attached private garage that:
 - does not have natural ventilation.

OR

b. is enclosed and does not have a ventilation system for vehicle exhaust.

AND

- c. Carbon monoxide alarm is not installed:
 - i. in the classroom.



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ii. in the immediate vicinity of each sleeping area.

iii. within each sleeping area.

HEALTH AND SAFETY DETERMINATION:

Life-Threatening

The Life-Threatening category includes deficiencies that, if evident in the home or on the

property, present a high risk of death to resident.

CORRECTION TIMEFRAME:

24 hours

HCV PASS / FAIL

Fail

HCV — CORRECTION TIMEFRAME:

24 hours

INSPECTION PROCESS:

OBSERVATION:

- Identify all fuel-burning appliances and fuel-burning fireplaces.

- Identify all adjacent spaces from which byproducts of combustion gases can flow (e.g., attached garage, mechanical

room, laundry).

- Identify all areas used for sleeping.

- If a fuel-burning appliance, fuel-burning fireplace, or adjacent space from which byproducts of combustion gases can

flow is present, then verify that a carbon monoxide alarm is installed within:

- the classroom; and

- each sleeping area; and

- in the immediate vicinity of each sleeping area.

REQUEST FOR HELP:

Ask the POA to identify the following within the Unit:

- fuel-burning appliances; and

- fuel-burning fireplaces; and

- adjacent spaces from which byproducts of combustion gases can flow.

ACTION:

- None

More Information:

- A classroom may include but is not limited to daycare centers, community centers, and preschools.

- A sleeping area includes places where individuals sleep in a daycare facility.



DEFICIENCY 2 - Unit: Carbon monoxide alarm is obstructed.

DEFICIENCY CRITERIA: Carbon monoxide alarm is obstructed

HEALTH AND SAFETY DETERMINATION: Life-Threatening The Life-Threatening category includes deficiencies that, if evident in the home or on the

property, present a high risk of death to resident.

CORRECTION TIMEFRAME: 24 hours
HCV PASS / FAIL Fail
HCV — CORRECTION TIMEFRAME: 24 hours

INSPECTION PROCESS:

OBSERVATION: - Look for presence of a carbon monoxide alarm.

REQUEST FOR HELP: - Non

ACTION: - Determine if the carbon monoxide alarm is covered by a foreign object (e.g., plastic bag, shower cap, zip tie, paint,

tape).

More Information: - A combination smoke and CO alarm should be evaluated under both the Carbon Monoxide Alarm and Smoke Alarm

standards.



DEFICIENCY 2 - Inside: Carbon monoxide alarm is obstructed.

DEFICIENCY CRITERIA: Carbon monoxide alarm is obstructed.

HEALTH AND SAFETY DETERMINATION: Life-Threatening The Life-Threatening category includes deficiencies that, if evident in the home or on the

property, present a high risk of death to resident.

CORRECTION TIMEFRAME: 24 hours
HCV PASS / FAIL Fail
HCV — CORRECTION TIMEFRAME: 24 hours

INSPECTION PROCESS:

OBSERVATION: - Look for the presence of a carbon monoxide alarm.

REQUEST FOR HELP: - None

ACTION: - Determine if the carbon monoxide alarm is covered by a foreign object (e.g., plastic bag, shower cap, zip tie, paint,

tape).

More Information: - A combination smoke and CO alarm should be evaluated under both the Carbon Monoxide Alarm and Smoke Alarm

standards.



Deficiency 3 - Unit: Carbon monoxide alarm does not produce audio or visual alarm when tested.

DEFICIENCY CRITERIA: Carbon monoxide alarm does not produce an audio or visual alarm when tested.

HEALTH AND SAFETY DETERMINATION: Life-Threatening The Life-Threatening category includes deficiencies that, if evident in the home or on the

property, present a high risk of death to resident.

CORRECTION TIMEFRAME: 24 hours
HCV PASS / FAIL Fail
HCV — CORRECTION TIMEFRAME: 24 hours

INSPECTION PROCESS:

OBSERVATION: - Look at the carbon monoxide alarm to find a test button; if no test button is present, disregard this deficiency.

- Look to see if the light on the carbon monoxide alarm flashes, strobes, or changes pattern in any way.

- Listen to hear if an alarm is emitted from the carbon monoxide alarm.

REQUEST FOR HELP: - If the test button is over 8 feet high, you may ask the POA to press test button.

ACTION: - If the test button is less than 8 feet high, press the test button.

More Information: - If the batteries are dead, then the CO alarm should be evaluated under this deficiency.

- Any CO alarm that is present should be evaluated under this deficiency.

- May utilize a tool to press the test button.



Deficiency 3- Inside: Carbon monoxide alarm does not produce audio or visual alarm when tested.

DEFICIENCY CRITERIA: Carbon monoxide alarm does not produce an audio or visual alarm when tested.

HEALTH AND SAFETY DETERMINATION: Life-Threatening The Life-Threatening category includes deficiencies that, if evident in the home or on the

property, present a high risk of death to resident.

CORRECTION TIMEFRAME: 24 hours
HCV PASS / FAIL Fail
HCV — CORRECTION TIMEFRAME: 24 hours

INSPECTION PROCESS:

OBSERVATION: - Look at the carbon monoxide alarm to find a test button; if no test button is present, disregard this deficiency.

- Look to see if the light on the carbon monoxide alarm flashes, strobes, or changes pattern in any way.

- Listen to hear if an alarm is emitted from the carbon monoxide alarm.

REQUEST FOR HELP: - If the test button is over 8 feet high, you may ask the POA to press test button.

ACTION: - If the test button is less than 8 feet high, press the test button.

More Information: - If the batteries are dead, then the CO alarm should be evaluated under this deficiency.

- Any CO alarm that is present should be evaluated under this deficiency.

- May utilize a tool to press the test button.



SUMMARY OF CHANGES

TITLE: CARBON MONOXIDE ALARM

VERSION: V2.2

DATE PUBLISHED: 04/18/22

FIELD	Change	Version	Date
More Information	Revised response	V2.2	2022-04-18
Deficiency I		V2.2	2022-04-18
Deficiency Criteria	Unit & Inside: Full revision		
Name Variants	Revised to include common name variants	V2.2	2022-04-18
Common Materials	Revised to include "plastic"	V2.2	2022-04-18
Common Components	Revised to include common components	V2.2	2022-04-18
Deficiency I		V2.2	2022-04-18
Title	Revised to carbon monoxide "alarm"		
Deficiency Criteria	Unit & Inside: Full revision	•	
Inspection Process	Unit & Inside: Full revision		
Rationale	Unit & Inside: Revised rationales and explanations		
Deficiency 2	Revised to carbon monoxide "alarm" throughout	V2.2	2022-04-18
Deficiency 3	Revised to carbon monoxide "alarm" throughout	V2.2	2022-04-18
Title	Revised title to "Carbon Monoxide Alarm"	V2.1	2021-04-02
Name Variants	Revised to "None"	V2.1	2021-04-02
Common Materials	Revised to "None"	V2.1	2021-04-02
Common Components	Revised to "None"	V2.1	2021-04-02
Location		V2.1	2021-04-02
Unit	Revised description		
Inside	Revised description		



More Information	Revised response	V2.1	2021-04-02
Deficiency I		V2.I	2021-04-02
Deficiency Criteria	Unit & Inside: Revised deficiency criteria		
Inspection Process	Unit & Inside: Revised Observation, Request for Help, and Action		
Rationale	Unit & Inside: Revised rationales and explanations		
Deficiency 2		V2.I	2021-04-02
Rationale	Inside: Revised rationales and explanations		
Deficiency 2		V2.1	2021-04-02
Rationale	Unit & Inside: Revised rationales and explanations		
Deficiency 3		V2.I	2021-04-02
Rationale	Unit & Inside: Revised rationales and explanations		
Deficiency I		V2.0	2020-10-28
Health and Safety Determination	Added standardized description		
HCV Pass / Fail	Field added; response input as "Fail"		
Rationale	Copy edits		
Deficiency 2		V2.0	2020-10-28
Health and Safety Determination	Added standardized description		
HCV Pass / Fail	Field added; response input as "Fail"	•	
Rationale	Copy edits		
Deficiency 3		V2.0	2020-10-28
Health and Safety Determination	Added standardized description		
HCV Pass / Fail	Field added; response input as "Fail"		
Rationale	Copy edits		
Overall Formatting	Complete rework of document format and layout	VI.3	2020-07-31
Definition	Revised definition	VI.3	2020-07-31
Purpose	Field added	VI.3	2020-07-31



Common Materials	Revised common materials	V1.3	2020-07-31
Common Components	Revised common components	VI.3	2020-07-31
Location	Revised inspectable locations	VI.3	2020-07-31
More Information	Field added	VI.3	2020-07-31
Deficiency I	Separated by inspectable locations — Unit and Inside	VI.3	2020-07-31
Title	Revised title; added inspectable locations		
Deficiency Criteria	Revised deficiency criteria		
Health and Safety Determ	ination Revised to "Life-Threatening" determination; added standardized description		
Correction Timeframe	Field added; response input as "24 hours"		
HCV — Correction Timefra	me Field added; response input as "24 hours"		
Rationale	Revised rationale categories, types, and explanations; added standardized code	es and descriptions	
Inspection Process	Revised observation, request for help, action, and more information		
Tools or Equipment	Field added to deficiency; response revised		
Deficiency 2	Separated by inspectable locations — Unit and Inside	V1.3	2020-07-31
Title	Revised title; added inspectable locations		
Deficiency Criteria	Revised deficiency criteria		
Health and Safety Determ	ination Revised to "Life-Threatening" determination; added standardized description		
Correction Timeframe	Field added; response input as "24 hours"		
HCV — Correction Timefra	me Field added; response input as "24 hours"		
Rationale	Revised rationale categories, types, and explanations; added standardized code	es and descriptions	
Inspection Process	Revised observation, request for help, action, and more information		
Tools or Equipment	Field added to deficiency; response revised		
Deficiency 3	Separated by inspectable locations — Unit and Inside	VI.3	2020-07-31
Title	Added inspectable locations		
Deficiency Criteria	Revised deficiency criteria		
Health and Safety Determ	ination Revised to "Life-Threatening" determination; added standardized description		
Correction Timeframe	Field added; response input as "24 hours"		
HCV — Correction Timefra	me Field added; response input as "24 hours"		



Rationale	Revised rationale categories, types, and explanations; added standardized codes and descriptions
Inspection Process	Added more information
Tools or Equipment	Field added to deficiency; response revised