



BGR Technical  
Publications

**Sample Questions**

# 2015 Commercial Mechanical Inspector

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# 2015 IMC EXAM PREP

Edison



***Inspector Series***

***Based on the  
2015 International Mechanical Code  
2015 International Fuel Gas Code***

Timed Exam 7-9 What is the minimum required outdoor ventilation air in CFM, for an theater ticket booth with and an estimated maximum occupant load, persons per 1,000 square feet of 60?

- A. 5
- B. 10
- C. 15
- D. 20

Timed Exam 7-10 Venting systems must be designed and constructed so as to develop a \_\_\_\_\_ adequate to convey all combustion products to the outside atmosphere.

- A. gravity flow
- B. negative flow
- C. external flow
- D. positive flow

Timed Exam 7-11 The minimum clearance to combustibles in inches for an exhaust vent expelling flammable vapors is \_\_\_\_\_.

- A. 1
- B. 3
- C. 6
- D. 12

Timed Exam 7-12 The code official will issue all necessary \_\_\_\_\_ to ensure compliance with the code.

- A. notices or orders
- B. subpoenas
- C. warrants
- D. none of the above

Timed Exam 7-13 Exhaust ducts that convey hazardous exhaust must be supported at intervals not exceeding \_\_\_\_\_. Supports must be constructed of noncombustible material.

- A. 5 feet (1524 mm)
- B. 8 feet (2432 mm)
- C. 10 feet (3048 mm)
- D. 12 feet (3660 mm)

Timed Exam 7-14 Equipment and appliances having an ignition source and located in hazardous locations and public garages, private garages, repair garages, automotive motor-fuel-dispensing facilities and parking garages must be elevated such that the source of ignition is not less than \_\_\_\_\_ above the floor surface on which the equipment or appliance rests.

- A. 10 inches (254 mm)
- B. 12 inches (310 mm)
- C. 18 inches (457 mm)
- D. 24 inches (625 mm)

Timed Exam 7-15 Makeup air must be supplied during the operation of commercial kitchen exhaust systems that are provided for commercial cooking appliances and the temperature differential between makeup air and the air in the conditioned space must not exceed \_\_\_\_\_. Exceptions ignored.

- A. 5°F
- B. 10°F
- C. 15°F
- D. 20°F

Timed Exam 7-16 Galvanized steel ducts must be made tight with lap joints having a minimum lap of \_\_\_\_\_.

- A. 1/2 inch (13 mm)
- B. 1 inch (25 mm)
- C. 3/4 inch (19 mm)
- D. 1-1/4 inch (32 mm)

Timed Exam 7-17 In wood structures, notches in the top or bottom of joists must not exceed \_\_\_\_\_ the depth and must not be located in the middle third of the span.

- A. one-sixth
- B. 6% of
- C. one-quarter
- D. 4% of

Timed Exam 7-18 Permits must not be required for the following:

- A. Portable heating appliances
- B. Gas heating appliances
- C. Electrical heating appliances
- D. Solar heating appliances

Timed Exam 7-19 Air necessary for complete combustion of a fuel, including theoretical air and excess air.

- A. Makeup Air
- B. Combustion Air
- C. Intake Air
- D. Dilution Air

Timed Exam 7-20 What is the maximum pipe support spacing in feet for copper pipe which is installed in a vertical orientation?

- A. 10
- B. 5
- C. 15
- D. 8

Timed Exam 7-21 A return air duct passes through a wall with a 2 hr. fire rating. What would be the required minimum rating for a fire damper in this duct.

- A. 1 hr.
- B. 1.5 hr.
- C. 2 hrs
- D. 3 hr.