

Mechanical Plans Examiner - M3

EXAM ID	CATEGORY	STATE	TYPE	CODE YEAR
M3	General Plans Examiner	National/All	National Certification	2021 ▾

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SCOPE

The responsibilities of the Mechanical Plans Examiner include but are not limited to the review of mechanical drawings, specifications, and other documentation provided by the design professional for compliance with the codes and standards adopted by their jurisdiction. The Plans Examiner provides customer services by answering questions and concerns related to mechanical codes and standards.

Plan reviews are documented and indicate deficiencies that must be corrected or that the submitted design is available for permitting. Corrections or changes to the permit drawings are reviewed to verify the submitted documentation does not change the original design and complies with the adopted codes and standards.

REFERENCES

2021 International Mechanical Code® (Soft Cover) \$117.00

2021 International Fuel Gas Code® (Soft Cover) \$117.00

COMMENT

Any copyrighted, bound book may be used at a test site. Exam questions will only come from the listed approved references, and exam appeals may only be based on the listed approved references.

QUESTIONS 50

TIME LIMIT 2 Hours

OPEN BOOK? Open

AVAILABLE METHODS
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General Administration 5%

Project Administration

Verify that the permit application is completed for the submitted construction documents. Verify that products not detailed in the code are approved. 3%

General Administration

Provide general information on code provisions and communicate using proper code definitions and terminology with co-workers and with individuals who submit plans. 2%

Appliances and Equipment 18%

Water Heaters and Boilers

Determine code compliance of water heaters and boilers. 5%

Cooling and Refrigeration

Determine code compliance of cooling and refrigeration systems including refrigeration equipment rooms. 5%

Furnaces and Heaters

Determine code compliance of furnaces and heaters. 5%

Other Systems

Determine code compliance of various special systems. This includes systems utilizing fuel burning equipment such as solid fuel burning appliances, interior open-flame grills, pool and sauna heaters, hydronic heating systems, incinerators, crematories, decorative appliances, etc. 3%

Exhaust and Ventilation Systems 25%

Exhaust and Ventilation Systems 6%

General Administration

5%

Determine code compliance of supply, return air, outside air, environmental exhaust air systems, and natural and mechanical ventilation systems, including clothes dryer exhaust.

Hoods and Kitchen Ventilation

Determine code compliance of commercial hoods, kitchen ventilation, grease ducts, and filters. Determine code compliance of kitchen makeup air systems.

8%

Hazardous Vapors and Emergency Exhaust System

Determine code compliance of the exhaust system for flammable and hazardous vapors and verify code compliance of the emergency exhaust systems for atrium, stairway, or smokeproof enclosures and smoke control systems.

7%

Product-Conveying and Ventilation Systems

Determine code compliance of product-conveying ventilation systems, ducts, motors, fans, filters, hoods, and enclosures shown on the submitted plans.

4%

Duct Systems

8%

Plenums and Duct Material

Determine code compliance of duct materials, ratings, insulation, listings, gage, etc. and application of ducts and plenums.

4%

Fire and Smoke Control

Determine code compliance of fire detection systems and smoke and fire dampers.

4%

Combustion Air

18%

Size, Location, and Materials of Ducts and Openings

Determine code compliance of the size, location, materials, and number of combustion air ducts and openings.

9%

Sources of Combustion Air in Confined/Unconfined Spaces

9%

General Administration

5%

Determine code compliance of the combustion air systems for confined and unconfined spaces and of the sources of combustion air.

Chimneys and Vents

17%

Venting of Fuel-Burning Appliances

Determine code compliance of the size, type, location, clearances, connections, and terminations of vents and venting systems. Verify clearances, bracing, listing, and labeling of the installation of metal chimneys and factory-built chimneys.

10%

Chimney and Vent Connectors

Determine code compliance of the size, type, location, and clearances of chimney and vent connectors.

7%

Fuel Supply Systems

9%

Fuel Supply Sizing

Determine code compliance of fuel pipe system components.

6%

Fuel System Components

Determine code compliance of materials, supports, valves, regulators, etc.

3%

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