

Certification: Mechanical Plans Examiner - applicable for exams built prior to July 1, 2015



Exam ID: M3

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.

- 50 multiple-choice questions
- 2-hour limit
- Open book

01	General Administration	5%
0101	<u>Project Administration</u> Verify that the permit application is completed for the submitted construction documents. Verify that products not detailed in the code are approved.	3%
0102	<u>General Administration</u> Provide general information on code provisions and communicate using proper code definitions and terminology with co-workers and with individuals who submit plans.	2%
02	Appliances and Equipment	15%
0201	<u>Water Heaters and Boilers</u> Determine code compliance of water heaters and boilers.	4%
0202	<u>Cooling and Refrigeration</u> Determine code compliance of cooling and refrigeration systems including refrigeration equipment rooms.	4%
0203	<u>Furnaces and Heaters</u> Determine code compliance of furnaces and heaters.	5%
0204	<u>Other Systems</u> 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.	2%

03	Exhaust and Ventilation Systems	25%
0301	<u>Exhaust and Ventilation Systems</u> Determine code compliance of supply, return air, outside air, environmental exhaust air systems, and natural and mechanical ventilations systems, including clothes dryer exhaust.	6%
0302	<u>Hoods and Kitchen Ventilation</u> Determine code compliance of commercial hoods, kitchen ventilation, grease ducts, and filters. Determine code compliance of kitchen makeup air systems.	8%
0303	<u>Hazardous Vapors and Emergency Exhaust System</u> 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%
0304	<u>Product-Conveying and Ventilation Systems</u> Determine code compliance of product-conveying ventilation systems, ducts, motors, fans, filters, hoods, and enclosures shown on the submitted plans.	4%
04	Duct Systems	8%
0401	<u>Plenums and Duct Material</u> Determine code compliance of duct materials, ratings, insulation, listings, gage, etc. and application of ducts and plenums.	4%
0402	<u>Fire and Smoke Control</u> Determine code compliance of fire detection systems and smoke and fire dampers.	4%
05	Combustion Air	21%
0501	<u>Size, Location, and Materials of Ducts and Openings</u> Determine code compliance of the size, location, materials, and number of combustion air ducts and openings.	11%
0502	<u>Sources of Combustion Air in Confined/Unconfined Spaces</u> Determine code compliance of the combustion air systems for confined and unconfined spaces and of the sources of combustions air.	10%
06	Chimneys and Vents	17%
0601	<u>Venting of Fuel-Burning Appliances</u> 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%
0602	<u>Chimney and Vent Connectors</u> Determine code compliance of the size, type, location, and clearances of chimney and vent connectors.	7%

07	Fuel Supply Systems	9%
0701	<u>Fuel Supply Sizing</u> Determine code compliance of fuel pipe system components.	6%
0702	<u>Fuel System Components</u> Determine code compliance of materials, supports, valves, regulators, etc.	3%