

# MECHANICAL PLANS EXAMINER CONTENT OUTLINE

**EXAM ID: M3**

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

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| <b>01. GENERAL ADMINISTRATION</b>  | <b>7%</b>  |
| <b>0101. Project Administration</b>  | <b>4%</b>  |
| Verify that the permit application is completed for the submitted construction documents. Verify that products not detailed in the code are approved.  |            |
| <b>0102. General Information</b>   | <b>3%</b>  |
| Provide general information on code provisions and communicate using proper code definitions and terminology with co-workers and with individuals who submit plans.  |            |
| <b>02. APPLIANCES AND EQUIPMENT</b>  | <b>13%</b> |
| <b>0201. Water Heaters and Boilers</b>   | <b>4%</b>  |
| Determine code compliance of water heaters and boilers.  |            |
| <b>0202. Cooling and Refrigeration</b>   | <b>2%</b>  |
| Determine code compliance of cooling and refrigeration systems including refrigeration equipment rooms.  |            |
| <b>0203. Furnaces and Heaters</b>  | <b>5%</b>  |
| Determine code compliance of furnaces and heaters.   |            |
| <b>0204. Other Systems</b>   | <b>2%</b>  |
| 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. |            |

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| <b>03.</b> | <b>EXHAUST AND VENTILATION SYSTEMS</b>   | <b>26%</b> |
|            | <b>0301. Exhaust and Ventilation Systems</b>   | <b>6%</b>  |
|            | Determine code compliance of supply, return air, outside air, environmental exhaust air systems, natural and mechanical ventilations systems including clothes dryer exhaust.  |            |
|            | <b>0302. Hoods and Kitchen Ventilation</b>   | <b>8%</b>  |
|            | Determine code compliance of commercial hoods, kitchen ventilation, grease ducts and filters. Determine code compliance of kitchen makeup air systems.   |            |
|            | <b>0303. Hazardous Vapors and Emergency Exhaust Systems</b>  | <b>8%</b>  |
|            | 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. |            |
|            | <b>0304. Product-Conveying and Ventilation Systems</b>   | <b>4%</b>  |
|            | Determine code compliance of product-conveying ventilation systems, ducts, motors, fans, filters, hoods and enclosures shown on the submitted plans.   |            |
| <b>04.</b> | <b>DUCT SYSTEMS</b>  | <b>7%</b>  |
|            | <b>0401. Duct Materials</b>  | <b>1%</b>  |
|            | Determine code compliance of duct materials, ratings, insulation, listings, gage, etc.   |            |
|            | <b>0402. Duct and Plenum Use and Application</b>   | <b>2%</b>  |
|            | Determine code compliance of use and application of ducts and plenums.   |            |
|            | <b>0403. Fire and Smoke Control</b>  | <b>4%</b>  |
|            | Determine code compliance of fire detection systems and smoke and fire dampers.  |            |
| <b>05.</b> | <b>COMBUSTION AIR</b>  | <b>21%</b> |
|            | <b>0501. Size, Location and Materials of Ducts and Openings</b>  | <b>11%</b> |
|            | Determine code compliance of the size, location, materials and number of combustion air ducts and openings.  |            |

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| 0502.      | <b>Sources of Combustion Air; Confined/Unconfined Spaces</b>   | <b>10%</b> |
|            | Determine code compliance of the combustion air systems for confined and unconfined spaces and of the sources of combustions air.  |            |
| <b>06.</b> | <b>CHIMNEYS AND VENTS</b>  | <b>17%</b> |
| 0601.      | <b>Venting of Fuel Burning Appliances</b>  | <b>10%</b> |
|            | 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. |            |
| 0602.      | <b>Chimney and Vent Connectors</b>   | <b>7%</b>  |
|            | Determine code compliance of the size, type, location, and clearances of chimney and vent connectors.  |            |
| <b>07.</b> | <b>FUEL SUPPLY SYSTEMS</b>   | <b>9%</b>  |
| 0701.      | <b>Fuel Supply Sizing</b>  | <b>6%</b>  |
|            | Determine code compliance of fuel pipe system components.  |            |
| 0702.      | <b>Fuel System Components</b>  | <b>3%</b>  |
|            | Determine code compliance of materials, supports, valves, regulators, etc.   |            |