## **Certification: Commercial Energy Inspector**

#### Exam ID: 77

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



### 01 General Plan Review Issues

8%

#### 0101 Applicability

4%

Determine if the building is required to comply with the provisions of the energy code.

### 0106 Additions, Alterations, and Change Of Use or Occupancy

4%

When additions or alterations are made to conditioned space, verify whether the additions or alterations are required to comply with provisions of the code for new buildings. Determine if the occupancy or use of the structure has changed so as to require energy code compliance.

## 02 Building Envelope

40%

### 0201 General Envelope Requirements

6%

Determine and identify conditioned, indirectly-conditioned, or unconditioned spaces.

#### 0202 Opaque Envelope Compliance

12%

Verify that the building envelope and its components, including doors, windows, and glazing, meet minimum requirements for installation of materials as specified on construction documents and as required by code.

#### 0203 Windows, Skylights, and Doors

16%

Verify areas and U-factors for installed glazing and doors. Verify solar heat gain coefficients (SHGC) and projection factors (PF) for glazing are as specified on construction documents and as required by code.

# 0204 Air Leakage

4%

Verify that building envelope penetrations are caulked, sealed, and weather-stripped by materials and methods as specified on construction documents and where required by code.

# 0205 Moisture Control

2%

Verify moisture control methods are provided as specified on construction documents and where required by code.

#### 03 Mechanical Systems

22%

#### 0301 Mechanical Summary

4%

Verify installed equipment complies with the construction documents for type, size, and efficiencies. Verify operation manuals are provided with the equipment where required.

	Energy Recovery and Complex Systems  Verify heat recovery equipment is installed as specified on construction documents.	2%
0303	Economizers  Verify installed economizer controls or equivalent efficiencies are as specified on construction documents and as required by code.	4%
0304	<u>Duct and Piping Systems</u> Inspect HVAC equipment, ducts, and piping for required insulation and sealing as specified on construction documents and where required by code.	6%
0305	Fan and Pump Systems  Verify compliance for part load controls installed for required insulation and sealing as specified on construction documents and for fan or pump systems as specified on the construction documents and as required by code.	2%
0306	HVAC Controls  Verify installed HVAC controls and locations are as specified on construction documents and as required by code.	4%
04	Electrical Power and Lighting systems	26%
0401	Exempt Lighting and Equipment  Verify lighting installation is as specified on construction documents and as required by code.	2%
0402	<u>Lighting Power</u>	10%
	Verify lighting is installed as specified on construction documents and as required by code.	1070
0403	Verify lighting is installed as specified on construction documents and as required by code.  Lighting Controls  Verify compliance of lighting controls for building interiors and exteriors as specified on construction documents and as required by	10%
	<u>Lighting Controls</u> Verify compliance of lighting controls for building interiors and exteriors as specified on	
	Lighting Controls  Verify compliance of lighting controls for building interiors and exteriors as specified on construction documents and as required by  Wiring Methods and Metering  Verify lighting installation is as specified on construction documents and as required by interiors and exteriors as specified on construction documents and as required by code. Verify metering is	10%