

ICC (F12) Building Contractor (B) – Tutorial

793. A minimum of R-3 insulation must be used for mechanical system piping that carries fluids ____.

- A. above 105°F
- B. below 55°F
- C. either of the above
- D. neither

CORRECT: C International Residential Code – N1103.4 (R403.4) Mechanical system piping insulation (Mandatory)

794. What percentage of permanently installed lighting fixtures must have only high-efficacy lamps?

- A. 55%
- B. 65%
- C. 75%
- D. 85%

CORRECT: C International Residential Code – N1104.1 (R404.1) Lighting equipment (Mandatory)

795. When a supply or return duct is not completely within the building envelope that duct must be insulated to a minimum of ____.

- A. R-3
- B. R-4
- C. R-5
- D. R-6

CORRECT: D International Residential Code – N1105.2 (R405.2) Mandatory requirements

796. Who is permitted to approve performance analysis tools for a specific application?

- A. building official
- B. general contractor
- C. International Code Council
- D. all of the above

CORRECT: A International Residential Code – N1105.6.2 (R405.6.2) Specific approval

ICC (F12) Building Contractor (B) – Tutorial

797. A residential building that used no net purchased energy has an Energy Rating Index (ERI) of ____.

- A. 0
- B. 1
- C. 99
- D. 100

CORRECT: A International Residential Code – N1106.3 (R406.3) Energy rating index

798. Alterations to an existing building must comply with the same energy efficiency requirements for new construction.

- A. True
- B. False

CORRECT: A International Residential Code – N1109.1 (R503.1) General

799. Buildings shall be ____ in accordance with the International Energy Conservation Code.

- A. constructed
- B. designed
- C. both A and B
- D. neither

CORRECT: C International Building Code – 1301.1.1 Criteria

NOTE: ICC indicates that 1% of the questions are in regard to Energy Efficiency but the only information in the International Building Code on Energy Efficiency is in Chapter 13 and that consists of two short paragraphs. Basically it refers to the International Energy Conservation Code that is not listed as a reference for this exam. There is a chapter in the International Residential Code on Energy Efficiency that may go away in 2018.

ICC (F12) Building Contractor (B) – Tutorial

The questions in this tutorial come from the *2015 International Building Code* and the *2015 International Residential Code*. You should have a copy of the 2015 edition of each of these codes. If you are using an older or newer edition of the building code some of the reference locations listed after the correct answer may not agree, may exist elsewhere in the code or may not even exist in the code.

Since the test is open book, it is strongly recommended that you use only the printed edition while studying for your exam. You will not be allowed to use any electronic (digital) versions of code books at the exam location.

The building codes does not have a section on Plan Reading and there are no questions on this subject in the tutorial or the practice tests. If you are not familiar with reading plans we suggest that you take a course or purchase a book on the subject. A good book is *Reading Architectural Plans for Residential and Commercial Construction*, Fifth Edition by Ernest R. Weidhaas. Studying from this book and working the exercises at the end of the book should give you a pretty good feel for reading plans.

Question are categorized as shown in the table below. Note that many of the questions could be categorized in multiple categories.

Category	Questions
Administration	1-51
Building Planning	52-99
Plan Reading	none
Life Safety	100-157
Exterior Walls	158-226
Roof Assemblies and Rooftop Structures	227-368
Soils and Foundations	369-522
Concrete	523-540
Masonry	541-669
Steel	670-691
Wood	692-760
Glass and Glazing	761-764
Gypsum Board and Plaster	765-778
Special Construction	779-781
Energy Efficiency	782-799

All of the concrete questions come from the building code and the residential code. You should receive a separate study guide for the *2012 Concrete Manual* with the files that are sent to you, but there are no practice test questions for that document.

For some categories there are more questions than appear on the exam. Note that there is no information on energy efficiency in the *2015 International Building Code*. Instead Chapter 13 (Energy Efficiency) in the code states that “Buildings shall be designed and constructed in accordance with the International Energy Conservation Code.” If you do not already have a copy of the International Energy Conservation Code you may want to consider obtaining and reviewing the section on commercial provisions. There are questions on energy efficiency from the *2015 International Residential Code*.

Additional and different questions can be found in the practice tests.