

Residential Building Contractor License Examination Guide

The Licensing Unit of the Department of Labor and Industry provides this guide to individuals applying for Residential Building Contractor, Residential Remodeler, Residential Roofer, and Manufactured Home Installer license. The guide contains information about the license examination and examination process. The guide **does not** contain all the information an applicant needs to apply for a license and pass the examination.

The examination format, difficulty, and length has not changed since July 2006.

This examination guide is based on the following resources:

Minnesota Statutes sections 176, 181, 326B, 327A, 327B, 333, and

514; Minnesota State Residential Building Code, 2015 edition;

Minn. Rules chapters 1300, 1303, 1309, 1315, 1322, 1350; 1360; and 2891

Code of Federal Regulations, Title 24, parts 3280, 3282, 3285, and 3286.

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Examination

Purpose

The department requires individuals to pass an examination to obtain a Residential Building Contractor, Residential Remodeler, Residential Roofer, or Manufactured Home Installer license. Passing the examination shows an applicant's ability to apply skills and knowledge gained through education, training, and/or experience. Licensing demonstrates to the public that an individual is qualified.

This guide has the following information about the licensing examinations:

- Subject matter
- Question format
- Examination format and length
- Examination length
- Time allowed for completing the examination
- Examination process and rules

General Examination Information

Applicants cannot ask questions of department staff monitoring the examination. The examination instructions, questions, and answers do not require any further explanation.

Examination questions test knowledge needed to become a Residential Building Contractor, Residential Remodeler, Residential Roofer, or Manufactured Home Installer.

The department provides current statutes and codes as reference materials along with a standard desktop calculator for applicants to use during the examination. The calculator includes addition, subtraction, multiplication, division, square root, and percentage functions. The reference materials are available for the entire exam. However, applicants should not rely on the reference materials to answer all the questions.

No other materials or electronic devices, including cell phones, are allowed in the building.

Applicants will automatically fail the examination and be required to submit a new application, including required fees, for the following actions:

- Giving assistance to or receiving it from anyone, including those who are also taking the examination;
- Copying questions or making notes regarding questions; or
- Leaving the building before completing the examination.

Applicants may leave the examination room to use the restroom within the building.

The department may electronically monitor the examination room.

Applicants may only view examination materials during the examination because they are classified as nonpublic data per Minnesota Statutes §13.34. This ensures the fairness and integrity of the examination process.

Question Format

Examination questions require applicants to show they have the skills and knowledge needed to be a Residential Building Contractors, Residential Remodelers, Residential Roofers, or Manufactured Home Installers. The department designed the examination to test an applicant's ability to apply knowledge and the building code to situations they may encounter. In order to assess applicants, the examinations has:

- Multiple choice questions with answer selections that could be correct. An applicant's knowledge will allow them to determine which of the reasonable answers is incorrect.
- Questions with unnecessary information that test an applicant's ability to determine what information is important to answer the question correctly.
- The information contained in the question will direct applicants to apply their knowledge of the subject area or code to arrive at the correct answer.

All examination questions are multiple choice. The question or statement will be followed by five answer options that you may select from. The examination has different multiple choice question formats:

- Questions that require applicants to select more than one answer. The question will state how many answers must be selected.
- Questions phrased negatively so applicants must select the answer options that do not apply. Applicants must select the answer option that is **not** correct. All other answer options are correct.

Additional information:

- As many as five different versions of the same examination may be given on an examination day.
- The department may modify the examinations up to three times during a code adoption cycle.
- The department accepts suggestions about the examination and questions and may use them to develop future examinations.

Examination Difficulty

The license category an applicant applies for determines the difficulty of the examination and its questions. For example, the Residential Building Contractor license examination contains questions that are more difficult than the questions contained in Residential Roofer license examination. A Residential Building Contractor must be more knowledgeable about the requirements the Residential Building Code.

Length of Examination

The license examinations for Residential Building Contractor, Residential Remodeler, Residential Roofer, and Manufactured Home Installer test applicants about technical information, business requirements, the Residential code, and Minnesota statutes. Below is the number of questions on each examination and the length of time an applicant has to complete it.

| License Examination | Number of Examination Questions | Length of time |
|---------------------------------|---------------------------------|----------------|
| Residential Building Contractor | 110 | 4 hours |
| Residential Remodeler | 110 | 4 hours |
| Residential Roofer | 110 | 4 hours |
| Manufactured Home Installer | 90 | 4 hours |

Scoring

- All examination questions have the same point value.
- Partial points are not granted. Applicants will receive full credit for answering the question correctly. If a question is answered incorrectly, then no points are awarded.
- Applicants will pass the examination if they answer 70 percent of the questions correctly.

Examination Results

- The department will mail examination results within two weeks of the date the applicant took the examination.
- The department cannot inform applicants of examination results by phone or email.
- **If an applicant passes** the examination, then the examination results letter will include instructions about obtaining a license.
- **If an applicant fails** the examination, then the examination results letter will contain instructions about how to apply to retake the examination. An applicant must wait 30 days after receiving the results letter before re-applying.

Examination Review

- The department rechecks examinations that are within five percentage points of passing.
- The department **will not** provide a written or oral review of applicant's examination. However, applicants may submit a written comment to the licensing unit about specific examination questions.
- If applicants fail the examination, then they must wait 30 days after receiving the results letter before applying to retake the examination.

Sample Questions

Below are examples of the question formats used in the examinations. The knowledge areas used in the sample questions may not apply to examinations for all license categories.

1. Which **three** of the following requirements specifically apply to conventionally framed floor cantilevers?
- A. Floor cantilever spans shall not exceed the nominal depth of the wood floor joist.
 - B. Floor cantilevers are not permitted when an exterior deck is attached to the floor framing.
 - C. Floor cantilevers supporting an exterior balcony are permitted to be constructed in accordance with Table R502.3.3 (2).
 - D. Floor cantilevers are permitted to exceed the nominal depth of the joist if the joists are doubled.
 - E. Floor cantilevers constructed in accordance with Table R502.3.3 (1) shall be permitted when supporting a light-framed bearing wall and roof only.

Answers: A, C, E Reference: IRC R502.3.3

This question asks the applicant to select more than one correct answer. The question clearly states applicants are to select three of the answer options.

2. Which of the five statements listed below **does not** correctly identify the code requirements pertaining to tenant separations in a Covered Mall Building?
- A. Tenant spaces are not required to be separated from the mall.
 - B. Each tenant space shall be separated from other tenant spaces by a fire partition complying with Section 708.
 - C. A tenant separation wall is not required in attic or ceiling spaces above tenant separation walls.
 - D. Tenant spaces shall be separated from each other by a 2 hour fire wall.
 - E. Tenant separation walls shall have a fire-resistance of not less than 1 hour.

Answer D Reference IBC 402.4.2.1 and IBC 708

This question is phrased negatively. All answers are correct except for one. Applicants are asked to select the one answer that does not meet the condition in the question.

3. The maximum allowable floor area per floor, without allowable area increases, for a two story, Type V-B, Group B occupancy that has 3 different tenants including a bank, an outpatient clinic, and post office in the basement is limited to _____ square feet.

- A. 9,000
- B. 27,000
- C. 18,000
- D. 3,000
- E. 13,500

Answer A Reference IBC Table 503

This question has unnecessary information about the building tenants. It tests an applicant's ability to ignore that information and focus on items that are important.

4. Only one exit stairway is required from the second floor of a single family dwelling unit. A second stairway is shown on the plan that connects the second floor with the first floor and basement. The second stairway must meet the following?

- A. The stairway must be in a vertical exit enclosure in accordance with IBC 1020.1.
- B. The stairway is not required to comply with rise and run requirements.
- C. The stairway is not required to comply with headroom requirements of R311.7.2.
- D. There may be reduced sized landings at each floor level.
- E. Stairways must meet all of the requirements of section R311.7.1.

Answer E Reference IRC R311.1

This question is a typical multiple choice question. It asks an applicant to select one of the answer options provided.

Formulas and Sample Calculations

The examinations require applicants to use mathematical formulas and calculations. The examples provided are basic and do not include all the formulas and calculations applicants must be familiar with to pass the examination.

The knowledge applicants have gained through practical experience is useful, but other resources are necessary to find examples of more complicated calculations and formulas. Studying other resources will help applicants to be as prepared as possible for the examination.

Units of Measurement

All questions and answers on the examination will use the inch-pound unit system.

Percentages

A percentage is the ratio of a whole number to 100. To express the percentage (%) as a decimal value, you divide the percentage by 100.

Sample Percentage Questions:

What is 70% of 140?

The percentage amount is divided by 100 to obtain the decimal value:

$$70 \div 100 = .70$$

Then 140 is multiplied by .70:

$$140 \times .70 = 98$$

Answer: 98

What is the result of increasing 120 by 25%?

The percentage amount is divided by 100:

$$25 \div 100 = .25$$

120 is multiplied by .25:

$$120 \times .25 = 30$$

30 is then added to the original value of 120

$$30 + 120 = 150$$

Answer: 150

Equations

An algebraic formula is a type of equation that shows the relationship among different variables. If the formula is known, then the opposite function can be performed on both sides of the equation to isolate the unknown variable.

For example, a known formula is $a + b = c$. If $a = 7$ and $c = 10$, then the equation is: $7 + b = 10$. To determine what the unknown b variable is you subtract 7 from each side of the equation to equalize sign:

$$7 + b - 7 = 10 - 7$$

$$b = 3$$

If the formula is known then the opposite function can be performed on both sides of the equation to produce a variation of the equation. Using the formula $a + b = c$, it may be changed by subtracting a or b from both sides resulting in the equations:

$$a = c - b \text{ or } b = c - a.$$

If an algebraic formula is known, the opposite function can be performed on both sides of the equation to isolate the unknown value. As an example, the following operations may be used to determine the missing value or to produce another variation of the equation:

A known formula is $a + b = c$. This formula may be changed by subtracting a or b from both sides of the equation, resulting in the following variations: $a = c - b$ or $b = c - a$.

Examination Knowledge Areas

For more information about the knowledge areas that applicants must be familiar with for each license category, visit:

Applicants are expected to be familiar with the knowledge areas for the license category. However, the examination may not test familiarity with all knowledge areas.

Residential Building Contractor Examination Content Outline

Effective in 2015

60 Scored Questions

| Knowledge Areas | Code References |
|---|---|
| I. Plans and Specifications | Minn. R. 1300 |
| A. Basic Plan Information | Minn. R. 1300 |
| II. Energy Code (Envelope Criteria) | Minn. R. 1322 |
| A. Interior Air Barrier | Minn. R. 1322 |
| B. Wind Wash Barrier (Exterior) | Minn. R. 1322 |
| C. Vapor Retarder | Minn. R. 1322 |
| D. Insulation | Minn. R. 1322 |
| E. Fenestration (Doors and Windows) Openings | Minn. R. 1322 |
| F. Mechanical/Passive Ventilation | Minn. R. 1322 |
| III. Building Planning/Life Safety | 2015 MN Residential Code/Minn. R. 1309 |
| A. Means of Egress | 2015 MN Residential Code/Minn. R. 1309 |
| B. Stairways | 2015 MN Residential Code/Minn. R. 1309 |
| C. Smoke Alarms | 2015 MN Residential Code/Minn. R. 1309 |
| D. Required Exit Door | 2015 MN Residential Code/Minn. R. 1309 |
| E. Wall Between House and Garage | 2015 MN Residential Code/Minn. R. 1309 |
| F. Safety Glazing | 2015 MN Residential Code/Minn. R. 1309 |
| G. Natural Light and Ventilation | 2015 MN Residential Code/Minn. R. 1309 |
| H. Minimum Ceiling Heights | 2015 MN Residential Code/Minn. R. 1309 |
| I. Replacement Windows | 2015 MN Residential Code/Minn. R. 1309 |
| IV. Sitework | 2015 MN Residential Code/Minn. R. 1309 |
| A. Soils | 2015 MN Residential Code/Minn. R. 1309 |
| B. Surveys | 2015 MN Residential Code/Minn. R. 1309 |
| C. Excavation (Gopher One Call) | 2015 MN Residential Code/Minn. R. 1309 |
| D. Filling/Soil Correction | 2015 MN Residential Code/Minn. R. 1309 |
| E. Erosion Control | 2015 MN Residential Code/Minn. R. 1309 |
| F. Backfill | 2015 MN Residential Code/Minn. R. 1309 |
| G. Frost Protection | 2015 MN Residential Code/Minn. R. 1309 , Minn. R. 1303 |
| V. Concrete and Masonry-Footings and Foundations | 2015 MN Residential Code/Minn. R. 1309 |
| A. Strength of Concrete | 2015 MN Residential Code/Minn. R. 1309 |
| 1. Admixtures | 2015 MN Residential Code/Minn. R. 1309 |
| 2. Specification | 2015 MN Residential Code/Minn. R. 1309 |
| 3. Air entrainment | 2015 MN Residential Code/Minn. R. 1309 |
| B. Curing | 2015 MN Residential Code/Minn. R. 1309 |
| C. Foundation Wall Design | 2015 MN Residential Code/Minn. R. 1309 |
| D. Vertical Reinforcement and Anchors | 2015 MN Residential Code/Minn. R. 1309 |
| E. Minimum Size Footings | 2015 MN Residential Code/Minn. R. 1309 |
| F. Damp proofing and Waterproofing | 2015 MN Residential Code/Minn. R. 1309 |
| G. Slab-On-Grade | 2015 MN Residential Code/Minn. R. 1309 |
| VI. Carpentry | 2015 MN Residential Code/Minn. R. 1309 |
| A. Protection Against Decay | 2015 MN Residential Code/Minn. R. 1309 |
| B. Floor Systems | 2015 MN Residential Code/Minn. R. 1309 |
| 1. Engineered | 2015 MN Residential Code/Minn. R. 1309 |

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| 2. Conventional | 2015 MN Residential Code/Minn. R. 1309 |
| C. Wall Framing | 2015 MN Residential Code/Minn. R. 1309 |
| D. Roof Framing and Trusses | 2015 MN Residential Code/Minn. R. 1309 |

| Knowledge Areas | Code References |
|------------------------------------|---|
| 1. Engineered | 2015 MN Residential Code/Minn. R. 1309 |
| 2. Conventional | 2015 MN Residential Code/Minn. R. 1309 |
| E. Stairs | 2015 MN Residential Code/Minn. R. 1309 |
| F. Decks and Balconies | 2015 MN Residential Code/Minn. R. 1309 |
| G. Chimneys and Chases | 2015 MN Residential Code/Minn. R. 1309 |
| H. Structural | 2015 MN Residential Code/Minn. R. 1309 |
| I. Wood Foundations | 2015 MN Residential Code/Minn. R. 1309 |
| VII. Roofing | 2015 MN Residential Code/Minn. R. 1309 |
| A. Underlayment/Ice Protection | 2015 MN Residential Code/Minn. R. 1309 |
| B. Rolled Roofing | 2015 MN Residential Code/Minn. R. 1309 |
| C. Asphalt Shingles | 2015 MN Residential Code/Minn. R. 1309 |
| D. Wood Shingles and Shakes | 2015 MN Residential Code/Minn. R. 1309 |
| E. Flashing | 2015 MN Residential Code/Minn. R. 1309 |
| F. Ventilation | 2015 MN Residential Code/Minn. R. 1309 |
| VIII. Exterior Finishes | 2015 MN Residential Code/Minn. R. 1309 |
| A. House Wraps | 2015 MN Residential Code/Minn. R. 1309 |
| B. Flashing | 2015 MN Residential Code/Minn. R. 1309 |
| C. Siding | 2015 MN Residential Code/Minn. R. 1309 |
| 1. Vertical | 2015 MN Residential Code/Minn. R. 1309 |
| 2. Wood | 2015 MN Residential Code/Minn. R. 1309 |
| 3. Aluminum and Vinyl | 2015 MN Residential Code/Minn. R. 1309 |
| 4. Hardboard | 2015 MN Residential Code/Minn. R. 1309 |
| D. Wood Shakes and Shingles | 2015 MN Residential Code/Minn. R. 1309 |
| E. Stucco | 2015 MN Residential Code/Minn. R. 1309 |
| F. Brick | 2015 MN Residential Code/Minn. R. 1309 |
| IX. Foam Plastic Insulation | 2015 MN Residential Code/Minn. R. 1309 |
| A. Flame Spread | 2015 MN Residential Code/Minn. R. 1309 |
| B. Thermal Protection | 2015 MN Residential Code/Minn. R. 1309 |
| X. Interior Finishes | 2015 MN Residential Code/Minn. R. 1309 |
| A. Drywall | IRC 2006, Minn. R. 1309 |
| XI. Associated Issues | 2015 MN Residential Code/Minn. R. 1309 |
| A. Electrical | Minn. R. 1315 |
| B. Plumbing | Minn. R. 4715 |
| C. Energy | Minn. R. 1322 |
| XII. Job Site Safety | Minn. Stat. 326B |
| A. Lead | Minn. Stat. 326B |

Residential Remodeler Examination Content Outline

Effective in 2015
60 Scored Questions

| Knowledge Areas | Code References |
|---|---|
| I. Plans and Specifications | Minn. R. 1300 |
| A. Basic Plan Information | Minn. R. 1300 |
| II. Energy Code | Minn. R. 1322 |
| A. Interior Air Barrier | Minn. R. 1322 |
| B. Wind Wash Barrier (Exterior) | Minn. R. 1322 |
| C. Vapor Retarder | Minn. R. 1322 |
| D. Insulation | Minn. R. 1322 |
| E. Fenestration (Doors and Windows) Openings | Minn. R. 1322 |
| F. Mechanical/Passive Ventilation | Minn. R. 1322 |
| III. Building Planning/Life Safety | 2015 MN Residential Code/Minn. R. 1309 |
| A. Means of Egress | 2015 MN Residential Code/Minn. R. 1309 |
| B. Stairways | 2015 MN Residential Code/Minn. R. 1309 |
| C. Smoke Alarms | 2015 MN Residential Code/Minn. R. 1309 |
| D. Required Exit Door | 2015 MN Residential Code/Minn. R. 1309 |
| E. Wall Between House and Garage | 2015 MN Residential Code/Minn. R. 1309 |
| F. Safety Glazing | 2015 MN Residential Code/Minn. R. 1309 |
| G. Natural Light and Ventilation | 2015 MN Residential Code/Minn. R. 1309 |
| H. Minimum Ceiling Heights | 2015 MN Residential Code/Minn. R. 1309 |
| I. Replacement Windows | 2015 MN Residential Code/Minn. R. 1309 |
| IV. Sitework | 2015 MN Residential Code/Minn. R. 1309 |
| A. Soils | 2015 MN Residential Code/Minn. R. 1309 |
| B. Surveys | 2015 MN Residential Code/Minn. R. 1309 |
| C. Excavation (Gopher One Call) | 2015 MN Residential Code/Minn. R. 1309 |
| D. Filling/Soil Correction | 2015 MN Residential Code/Minn. R. 1309 |
| E. Erosion Control | 2015 MN Residential Code/Minn. R. 1309 |
| F. Backfill | 2015 MN Residential Code/Minn. R. 1309 |
| G. Frost Protection | 2015 MN Residential Code/Minn. R. 1309 |
| V. Concrete and Masonry-Footings and Foundations | 2015 MN Residential Code/Minn. R. 1309 |
| A. Strength of Concrete | 2015 MN Residential Code/Minn. R. 1309 |
| 1. Admixtures | 2015 MN Residential Code/Minn. R. 1309 |
| 2. Specification | 2015 MN Residential Code/Minn. R. 1309 |
| 3. Air entrainment | 2015 MN Residential Code/Minn. R. 1309 |
| B. Curing | 2015 MN Residential Code/Minn. R. 1309 |
| C. Foundation Wall Design | 2015 MN Residential Code/Minn. R. 1309 |
| D. Vertical Reinforcement and Anchors | 2015 MN Residential Code/Minn. R. 1309 |
| E. Minimum Size Footings | 2015 MN Residential Code/Minn. R. 1309 |
| F. Dampproofing and Waterproofing | 2015 MN Residential Code/Minn. R. 1309 |
| G. Slab-On-Grade | 2015 MN Residential Code/Minn. R. 1309 |
| VI. Carpentry | 2015 MN Residential Code/Minn. R. 1309 |
| A. Protection Against Decay | 2015 MN Residential Code/Minn. R. 1309 |
| B. Floor Systems | 2015 MN Residential Code/Minn. R. 1309 |
| 1. Engineered | 2015 MN Residential Code/Minn. R. 1309 |
| 2. Conventional | 2015 MN Residential Code/Minn. R. 1309 |

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| C. Wall Framing | 2015 MN Residential Code/Minn. R. 1309 |
| D. Roof Framing and Trusses | 2015 MN Residential Code/Minn. R. 1309 |
| 1. Engineered | 2015 MN Residential Code/Minn. R. 1309 |
| 2. Conventional | 2015 MN Residential Code/Minn. R. 1309 |

| Knowledge Areas | Code References |
|------------------------------------|---|
| E. Stairs | 2015 MN Residential Code/Minn. R. 1309 |
| F. Decks and Balconies | 2015 MN Residential Code/Minn. R. 1309 |
| G. Chimneys and Chases | 2015 MN Residential Code/Minn. R. 1309 |
| H. Structural | 2015 MN Residential Code/Minn. R. 1309 |
| I. Wood Foundations | 2015 MN Residential Code/Minn. R. 1309 |
| VII. Roofing | 2015 MN Residential Code/Minn. R. 1309 |
| A. Underlayment/Ice Protection | 2015 MN Residential Code/Minn. R. 1309 |
| B. Rolled Roofing | 2015 MN Residential Code/Minn. R. 1309 |
| C. Asphalt Shingles | 2015 MN Residential Code/Minn. R. 1309 |
| D. Wood Shingles and Shakes | 2015 MN Residential Code/Minn. R. 1309 |
| E. Flashing | 2015 MN Residential Code/Minn. R. 1309 |
| F. Ventilation | 2015 MN Residential Code/Minn. R. 1309 |
| VIII. Exterior Finishes | 2015 MN Residential Code/Minn. R. 1309 |
| A. House Wraps | 2015 MN Residential Code/Minn. R. 1309 |
| B. Flashing | 2015 MN Residential Code/Minn. R. 1309 |
| C. Siding | 2015 MN Residential Code/Minn. R. 1309 |
| 1. Vertical | 2015 MN Residential Code/Minn. R. 1309 |
| 2. Wood | 2015 MN Residential Code/Minn. R. 1309 |
| 3. Aluminum and Vinyl | 2015 MN Residential Code/Minn. R. 1309 |
| 4. Hardboard | 2015 MN Residential Code/Minn. R. 1309 |
| D. Wood Shakes and Shingles | 2015 MN Residential Code/Minn. R. 1309 |
| E. Stucco | 2015 MN Residential Code/Minn. R. 1309 |
| F. Brick | 2015 MN Residential Code/Minn. R. 1309 |
| IX. Foam Plastic Insulation | 2015 MN Residential Code/Minn. R. 1309 |
| A. Flame Spread | 2015 MN Residential Code/Minn. R. 1309 |
| B. Thermal Protection | 2015 MN Residential Code/Minn. R. 1309 |
| X. Interior Finishes | 2015 MN Residential Code/Minn. R. 1309 |
| A. Drywall | 2015 MN Residential Code/Minn. R. 1309 |

Residential Roofer Examination Content Outline

Effective in 2015

60 Scored Questions

| Knowledge Areas | Code References |
|--|--|
| I. General Roofing Principles and Estimating | 2015 MN Residential Code/ Minn. R. 1309 |
| A. Requirements Specific to Roofers | MN Statutes 326B |
| 1. Bonding | MN Statutes 326B |
| 2. Code Edition | 2015 MN Residential Code/Minn. R. 1309 |
| 1. Basic Roofing Math Skills | 2015 MN Residential Code/Minn. R. 1309 |
| 2. Determining Pitch of Roof | 2015 MN Residential Code/Minn. R. 1309 |
| 3. Evaluating an Existing Roof System (number of layers) | 2015 MN Residential Code/Minn. R. 1309 |
| II. Roof Deck Requirements | 2015 MN Residential Code/Minn. R. 1309 |
| A. Spaced Sheathing | 2015 MN Residential Code/Minn. R. 1309 |
| B. Thickness and Type of Sheathing | 2015 MN Residential Code/Minn. R. 1309 |
| III. Underlayment | 2015 MN Residential Code/Minn. R. 1309 |
| A. Ice Protection | 2015 MN Residential Code/Minn. R. 1309 |
| B. General Underlayment | 2015 MN Residential Code/Minn. R. 1309 |
| C. Half Lap vs. 2-Inch Lap | 2015 MN Residential Code/Minn. R. 1309 |
| D. General Underlayment | 2015 MN Residential Code/Minn. R. 1309 |
| IV. Pitched Roofs | 2015 MN Residential Code/Minn. R. 1309 |
| A. Asphalt Shingles | 2015 MN Residential Code/Minn. R. 1309 |
| 1. Starter Course | 2015 MN Residential Code/Minn. R. 1309 |
| 2. Staples vs. Nails | 2015 MN Residential Code/Minn. R. 1309 |
| 3. Overhang | 2015 MN Residential Code/Minn. R. 1309 |
| 4. Attachment | 2015 MN Residential Code/Minn. R. 1309 |
| B. Wood Shingles and Shakes | 2015 MN Residential Code/Minn. R. 1309 |
| 1. Grade of Wood | 2015 MN Residential Code/Minn. R. 1309 |
| 2. Minimum Deck Slope | 2015 MN Residential Code/Minn. R. 1309 |
| 3. Application | 2015 MN Residential Code/Minn. R. 1309 |
| 4. Standard of Material | 2015 MN Residential Code/Minn. R. 1309 |
| 5. Overhang | 2015 MN Residential Code/Minn. R. 1309 |
| C. Tile and Slate | 2015 MN Residential Code/Minn. R. 1309 |
| 1. Starter Course | 2015 MN Residential Code/Minn. R. 1309 |
| 2. Underlayment | 2015 MN Residential Code/Minn. R. 1309 |
| 3. Application | 2015 MN Residential Code/Minn. R. 1309 |
| D. Metal Roofs | 2015 MN Residential Code/Minn. R. 1309 |
| 1. Compatibility of Different Metals | 2015 MN Residential Code/Minn. R. 1309 |
| 2. Structural Systems | 2015 MN Residential Code/Minn. R. 1309 |
| 3. Expansion and Contraction | 2015 MN Residential Code/Minn. R. 1309 |
| 4. Manufacturer Installation Requirements | 2015 MN Residential Code/Minn. R. 1309 |
| 5. Attachment | 2015 MN Residential Code/Minn. R. 1309 |
| 6. Flashing | 2015 MN Residential Code/Minn. R. 1309 |
| V. Low-Sloped Roofs | 2015 MN Residential Code/Minn. R. 1309 |
| A. Rolled Roofing | 2015 MN Residential Code/Minn. R. 1309 |
| B. Membranes | 2015 MN Residential Code/Minn. R. 1309 |
| C. Built-up | 2015 MN Residential Code/Minn. R. 1309 |
| D. Drainage | 2015 MN Residential Code/Minn. R. 1309 |

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| VI. Roofing Fasteners | 2015 MN Residential Code/Minn. R. 1309 |
| A. Types of Fasteners | 2015 MN Residential Code/Minn. R. 1309 |
| Knowledge Areas | Code References |
| | |
| B. Location of Fasteners | 2015 MN Residential Code/Minn. R. 1309 |
| C. Number of Fasteners | 2015 MN Residential Code/Minn. R. 1309 |
| VII. Flashing | 2015 MN Residential Code/Minn. R. 1309 |
| A. Step Flashing | 2015 MN Residential Code/Minn. R. 1309 |
| B. Apron Flashing | 2015 MN Residential Code/Minn. R. 1309 |
| C. Counter Flashing | 2015 MN Residential Code/Minn. R. 1309 |
| D. Cricket/Saddle Flashing | 2015 MN Residential Code/Minn. R. 1309 |
| E. Valley Flashing | 2015 MN Residential Code/Minn. R. 1309 |
| F. Base and Cap Flashing | 2015 MN Residential Code/Minn. R. 1309 |
| G. Kick Out Flashing | 2015 MN Residential Code/Minn. R. 1309 |
| VIII. Ventilation | 2015 MN Residential Code/Minn. R. 1309 |
| A. Installation of Vents | 2015 MN Residential Code/Minn. R. 1309 |
| B. Types of Vents | 2015 MN Residential Code/Minn. R. 1309 |
| C. Requirements | 2015 MN Residential Code/Minn. R. 1309 |
| IX. Reroofing | 2015 MN Residential Code/Minn. R. 1309 |

Manufactured Home Installer Examination Content Outline

Effective in 2015
50 Scored Questions

| Knowledge Areas | Code References |
|---|--------------------------------|
| I. Federal and State Standards, Rules, and Regulations | Minn. R. 1350 |
| A. Seals, Construction Labels, and Certificates | Minn. Stat. 327B, CFR 3280 |
| B. Alternate Construction | CFR 3282 |
| C. Permits and Inspections | Minn. R. 1300 |
| D. Alterations | Minn. R. 1350 |
| II. Placement and Site Preparation | Minn. R. 1350 |
| A. Temporary Support | Minn. R. 1350 |
| B. Condition of Delivery | Minn. R. 1300 |
| C. Surveys/Site Plans | Minn. R. 1300 |
| D. Soils | Minn. R. 1303 |
| 1. Support | Minn. R. 1350 |
| 2. Stabilizing | Minn. R. 1350 |
| E. Excavation | Minn. R. 1350 |
| F. Filling/Soil Correction/Compaction | Minn. R. 1350 |
| G. Backfill/Site Drainage/Moisture Barrier | 2006 IRC, CFR 3285 |
| III. Stabilizing System | Minn. R. 1350 |
| A. Support Systems | Minn. R. 1350 |
| 1. Footings | Minn. R. 1350 |
| 2. Foundation Systems and Piers | Minn. R. 1350 |
| B. Anchoring Systems | Minn. R. 1350 |
| 1. Anchors, Anchor Equipment, Connections, and Ties | Minn. R. 1350 |
| 2. Design | Minn. R. 1350 |
| 3. Approval | Minn. R. 1350 |
| C. Installation | Minn. R. 1350 |
| IV. Multi-Section Connections and Alternate Construction | CFR 3280 |
| A. Structural Connections | CFR 3280 |
| 1. Floor | CFR 3280 |
| 2. Ridge/Roof | CFR 3280 |
| 3. Sidewall | CFR 3280 |
| 4. Ceiling | CFR 3280 |
| B. Weatherization | CFR 3280 |
| C. Drain/Waste and Vent | CFR 3280 |
| D. Water | CFR 3280 |
| E. Gas Piping | CFR 3280 |
| F. Heating and Air Conditioning Ducting | CFR 3280 |
| G. Electrical | CFR 3280 |
| V. Site-Utilities Installation and Testing | Minn. R. 4715, CFR 3280 |
| A. Water | Minn. R. 4715, CFR 3280 |
| B. Sewer | Minn. R. 4715, CFR 3280 |
| C. Gas | Minn. R. 1350, CFR 3285 |
| D. Electrical | Minn. R. 1315 |
| VI. Skirting and Perimeter Enclosure/Ventilation | Minn. R. 1350, CFR 3285 |

Summary of Your Disability Rights

The Americans with Disabilities Act (ADA) and the Minnesota Human Rights Act (MHRA) require the Department of Labor and Industry (DLI) to provide reasonable accommodations and modifications for qualified individuals with disabilities who are applying for a license, taking a test, and accessing a facility. The accommodation must be requested, be necessary, and not create an undue burden.

- A qualified individual must meet the essential eligibility requirements for the license sought.
- A person with a disability has a physical or mental impairment that substantially limits a major life activity.
- A person with a disability is substantially limited when his or her impairment causes significant difficulty, effort, and time to perform a major life activity in comparison to most people in the general population. A major life activity includes: caring for oneself, performing manual tasks, seeing, hearing, eating, sleeping, walking, standing, sitting, reaching, lifting, bending, speaking, breathing, learning, reading, concentrating, thinking, communicating, interacting with others and working.

If you have questions, call:

- ADA – 1-800-514-3001 (voice) or 1-800-514-0383 (TTY)
- MHRA – 1-800-657-3704 (voice) or 1-800-627-3529 (Minnesota Relay)

If you are a qualified individual with a disability and need reasonable accommodation to apply for a license, take a test or access a facility:

- fill in, sign, and date the Reasonable Accommodation Request form;
- sign and date the Data Practices Act form; and
- mail or drop off both forms to DLI with your Application for Examination form.

Reasonable Accommodation Request Form

All requests must first be approved by DLI’s Construction Codes and Licensing Division. Candidates must wait for confirmation of approval before applying for license, scheduling an examination, or accessing a facility.

| | | | |
|---|------------|---------------|----------------|
| Last name | First name | M.I. | Date |
| Street address | | City | State ZIP code |
| Daytime phone number | | Email address | |
| Describe the accommodation you want (equipment, reader, extra testing time, etc.) | | | |
| Describe any accommodation DLI has provided you in the past | | | |

An individual who has a physical or mental disability as defined by the Americans with Disabilities Act (ADA), as amended, or the Minnesota Human Rights Act (MHRA) may request an accommodation to apply for a license, take an examination, or access a facility.

The Minnesota Department of Labor and Industry (DLI) will provide an accommodation unless it creates an undue burden. DLI will contact the applicant after receiving the required documents and making a determination. DLI will schedule the examination and confirm it with the applicant.

If you wish to request an accommodation, send the following to DLI’s CCLD Licensing.

1. This accommodation request form – filled in, signed, and dated.
2. A written statement from your health care provider (on letterhead, signed and dated by your health care provider) documenting: the nature of your disability; what major life activity your disability substantially limits; and the type of reasonable accommodation needed to apply for a license, take a license test, or access a building.
3. The attached Licensing ADA data practices notice – signed and dated.

Note: If you are requesting an accommodation to take a license test, also include your Application for Examination form along with the above documents.

Office use only

Application number _____ Approved date _____ Denied date _____

This material can be made available in different forms, such as audio, Braille or large print by calling (651) 284-5005 or 1-800-342-5354.

CCLD Licensing ADA/MHRA Data Practices Notice

Pursuant to the Minnesota Government Data Practices Act, Minnesota Statutes § 13.04, subd. 2, the Minnesota Department of Labor and Industry (DLI) is asking you to supply private or confidential data concerning your request for reasonable accommodation or modification as governed by the Americans with Disabilities Act (ADA), as amended, and/or the Minnesota Human Rights Act (MHRA).

Sign and date below after you have fully read, understand and agree to the following.

- I authorize the DLI Construction Codes and Licensing Division’s (CCLD’s), Licensing Section and any other authorized division within DLI to receive and review my medical information to determine whether I have a disability and my need for reasonable accommodation.
- I understand the medical information being requested shall be provided to DLI’s CCLD Licensing Section within 15 days of written request. If the requested information is not provided within 15 days of request, reasonable accommodation may be delayed or denied.
- I authorize any authorized personnel from DLI to contact my health care provider to clarify and authenticate medical information should it be deemed incomplete or insufficient and I fail to resolve any deficiency within seven days of written request from DLI.
- I understand I may refuse to provide DLI with the requested medical information. However, I understand refusal may result in reasonable accommodation being delayed or denied.
- I understand the medical information I provide may be accessed by authorized DLI personnel to determine eligibility under the ADA/MHRA and released to other persons or entities authorized by state or federal law.

Signature of person requesting accommodation

Date

Scheduling Examinations

Do not schedule an examination until you receive notification that the department approved your application. The department will notify applicants by mail when the application is approved. Applicants will be directed to the department's website to schedule an examination.

The department will not schedule dates for individuals who have not received written approval of their application.

Applicants must schedule their examinations. Walk-ins are not permitted to take an examination. Applicants may reschedule their examination one time. The department will deny applications of individuals that fail to appear for a rescheduled examination.

Applicants that have failed the examination must apply to retest, submit the fee, and qualify for another examination date.

For more information about exam dates, location and scheduling, visit:

<http://www.dli.mn.gov/business/get-licenses-and-permits/license-exam-schedule>

Examination Day

- Applicants must arrive at least 30 minutes before their examination is scheduled to begin.
- The department requires applicants to present photo ID before they are allowed to take the examination.
- Applicants are allowed to bring food and beverages into the examination room.

Location

The Department of Labor and Industry is located at 443 Lafayette Road North, Saint Paul, north of the intersection of Interstate 94 and US Highway 52 (Lafayette Road North), northeast of downtown Saint Paul. <http://www.dli.mn.gov/about-department/about-dli/office-locations-and-phone-numbers>

The "Approved for Examination" letter contains specific instructions for those scheduled to take the examination in St. Paul or at a site in greater Minnesota.

Reciprocal Agreements

The Minnesota Department of Labor and Industry does not have reciprocal agreements with other states for Residential Building Contractors, Residential Remodelers, Residential Roofers, and Manufactured Home Installers licenses. If an individual has received a license from another state, they must still apply for a license in Minnesota and take the examination.

Continuing Education Requirements

The department requires licensed Residential Building Contractors, Residential Remodelers, Residential Roofers, and Manufactured Home Installers to complete continuing education in order to maintain their license. [Minnesota Statutes § 326B.821](#) describes the continuing education requirements for each category.

Continuing education credits may be used for renewal of more than one category of license, but may only be used once for each category of license. Continuing education credits beyond those required for renewal and earned prior to license expiration do not carry over to the next license term.

The department approves continuing education that meets the requirements of [Minnesota Statutes § 326B.0981, subd. 5](#) and has content that is useful to Residential Building Contractors, Residential Remodelers, Residential Roofers, and Manufactured Home Installers. For a list of continuing education courses, visit: <https://secure.doli.state.mn.us/cldcecourses/>

License and Examination Application

For a license application, visit: <https://secure.doli.state.mn.us/license/intro.aspx>

Upon request, this document can be made available in alternative formats (Braille, large print, or audio).