



# MH Installer 12-Hour Initial or Continuing Education and UDC Construction Inspector Continuing Education Exam #11707

Name as it appears on your MH Installer Credential: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

MH Installer Credential #: \_\_\_\_\_ or  initial education

## Intro to Manufactured Housing

1) A preemptive code means that no local government can increase or decrease requirements.

- A. True
- B. False

2) The HUD Code preemption applies to the home sections as well as any site built additions such as a garage.

- A. True
- B. False

3) The Wisconsin One- and Two-Family Dwelling Code (UDC) applies to any site built additions to a HUD Code home.

- A. True
- B. False

4) Wisconsin law provides for random home inspections.

- A. True
- B. False

5) No new mobile homes have been built since 1976.

- A. True
- B. False

6) "Modular homes" are generally built in two or more sections.

- A. True
- B. False

7) Multi-section homes represent a large portion for the new homes installed and require special attention for installers.

- A. True
- B. False

8) Special considerations for multi-section homes include:

- A. Marriage line pier locations
- B. Electrical line crossovers
- C. Proper connection of "halves"
- D. All of the above

9) Buried electrical lines which differ from site plans are a special concern when installing a home in a manufactured home community.

- A. True
- B. False

10) A proper foundation is important to avoid buckling of vinyl skirting.

- A. True
- B. False

11) Attached garages to manufactured homes require prior consultation with the homes manufacturer related to fire breaks, structural support and foundation considerations.

- A. True
- B. False

12) Attached decks must be self supporting and not "hung" onto the home.

- A. True
- B. False

13) The HUD Code label appears on each floor section of the home.

- A. True
- B. False

14) The HUD Code was adopted in 2000.

- A. True
- B. False

15) Each HUD Code home is subject to approval by a DAPIA to assure that the home is designed in accordance with the HUD Code.

- A. True
- B. False

16) Once construction has begun in the factory, each home is subject to inspection by an IPIA or in-plant primary inspection agency.

- A. True
- B. False

17) A HUD Code home can have its plumbing system stubbed thru the floor for completion on the job site.

- A. True
- B. False

18) For a HUD Code home on a basement, the metal chassis can be removed.

- A. True
- B. False

19) The data plate on each home includes the home's roof load zone.

- A. True
- B. False

20) If a HUD Code home has non-standard features such as a hinged roof, the home may be subject to an alternative construction inspection at the home site.

- A. True
- B. False

21) A roof penetration in a hinged roof for a heating vent would be a typical item subject to an AC inspection.

- A. True
- B. False

## **Manufactured Home Installation**

22) Licensing for MH installer began April 1, 2007.

- A. True
- B. False

23) Anchoring equipment means ties, straps, cables, turnbuckles, chains and other approved components including tensioning devices that are used to secure a manufactured home to anchor assemblies.

- A. True
- B. False

24) A manufacturer may provide, but is not required to provide, with each new manufactured home, DAPIA approved designs and instructions for installation.

- A. True
- B. False

25) DAPIA means:

- A. Dual Application for Planning Inspection and Approval
- B. Designated Approval Planning Agency
- C. Design Approval Primary Inspection Agency
- D. Driver's Approval and Planning Association

26) Prior to the initial installation of a new manufactured home, the installer is responsible to determine whether the home lies wholly or partially within a special flood hazard area.

- A. True
- B. False

27) Manufactured homes must not be installed in a wind zone that exceeds the design wind load for the home.

- A. True
- B. False

28) The Wind Zone for Wisconsin is:

- A. Zone 1
- B. Zone 2
- C. Zone 3

29) Besides Wind zones, other zones established by the HUD Code include:

- A. Roof load zone
- B. Thermal zone
- C. Both roof and thermal zones
- D. Neither roof nor thermal zones

30) Soil bearing capacity can be determined with a pocket penetrometer.

- A. True
- B. False

31) All drainage must be diverted away from the home and must slope a minimum of one-half inch per foot away from the foundation for the first 10 feet if the home was built on or after April 1, 2007.

- A. True
- B. False

- 32) The home, where sited, must prevent surface water run-off building up under the home.
- A. True
  - B. False
- 33) For a home built on or after April 1, 2007, the installation of a vapor retarder of six mil poly is optional if skirting is installed.
- A. True
  - B. False
- 34) Acceptable materials for piers are:
- A. Concrete blocks
  - B. Adjustable metal or concrete piers
  - C. Both of the above
- 35) Pier spacing is always the same size, no matter what the soil bearing capacity is.
- A. True
  - B. False
- 36) Center beam/mating line supports for multi-section homes typically can have larger loads than perimeter loads.
- A. True
  - B. False
- 37) Hollow core concrete blocks along the I-Beam are stacked:
- A. Vertically for maximum height
  - B. Horizontally with their hollow cores aligned vertically
  - C. Horizontally with their hollow cores visually evident from the sides
  - D. Horizontally parallel to the I-beam
- 38) Pier caps can be made of:
- A. Solid concrete or masonry at least 4 inches thick
  - B. Hardboard lumber at least 2 inches thick
  - C. Both A & B
- 39) A pier cap can be of any size as long as it covers the top of the pier fully.
- A. True
  - B. False
- 40) When split caps are used on double-stacked blocks, the caps must be installed with the long dimension across the joint in the blocks below.
- A. True
  - B. False
- 41) Gaps between the chassis beam and the foundation support system must be filled.
- A. True
  - B. False
- 42) Gaps can be filled with shims of what dimension?
- A. Size doesn't matter as long as they are uniform
  - B. One inch thick maximum but no limit as to width or length
  - C. One-half inch thick maximum but no limit as to width or length
  - D. Nominal 4 inch by 6 inch by one inch thick
- 43) The maximum height of the shims is one inch.
- A. True
  - B. False
- 44) If the gap is more than what can be filled with shims, the remaining height can be taken up by hardwood plates that are not more than 2 inches in height when finally positioned.
- A. True
  - B. False
- 45) Shims are never driven in pairs.
- A. True
  - B. False
- 46) For homes built on or after April 1, 2007, the minimum clearance between the lowest member of the main frame (I-beam) and the grade of all areas under the home is?
- A. 6 inches
  - B. 12 inches
  - C. 16 inches
  - D. 24 inches
- 47) Single stack block piers are permitted up to what height?
- A. Less than 24 inches
  - B. Less than 32 inches
  - C. Less than 36 inches
  - D. Less than 67 inches
- 48) Concrete block piers are installed so that the long sides are at right angles to the I-Beam.
- A. True
  - B. False

49) Horizontal offset (alignment of the blocks) from the top to the bottom of piers less than 36 inches in height must not exceed:

- A. 1/4 inch
- B. 1/2 inch
- C. 3/4 inch
- D. 1 inch

50) Mortaring a pier stack for a home built on or after April 1, 2007 is:

- A. Always required
- B. Always required on piers over 36 inches
- C. Always required on piers over 48 inches
- D. Not required unless specified by instructions from an engineer or architect.

51) Mortaring piers is required for older homes above 80 inches.

- A. True
- B. False

52) Double stack piers are required for homes built on or after April 1, 2007:

- A. All frame piers between 36 and 67 inches
- B. All corner piers over 3 blocks high
- C. Both of the above
- D. None of the above

53) Horizontal offsets in piers between 36 and 67 inches in height for a home built on or after April 1, 2007 must not exceed:

- A. 1/3 inch
- B. 1/2 inch
- C. 1 inch
- D. 2 inches

54) Manufactured piers must be listed and installed to the pier manufacturer instructions.

- A. True
- B. False

55) Piers supporting the frame must be located no more than \_\_\_ inches from both frame ends and not more than 120 inches center to center under the main rails.

- A. 12 inches
- B. 24 inches
- C. 36 inches
- D. 120 inches

56) The maximum spacing permitted for piers supporting the frame must be no more than 120 inches.

- A. True
- B. False

57) Perimeter supports for a home built on or after April 1, 2007 must be used under:

- A. Any other side wall opening of 48 inches in width
- B. Exterior doors
- C. Any side wall openings of 48 inches width or more
- D. All of the above

58) Footings may be placed on unprepared fill such as organic soils.

- A. True
- B. False

59) Footings placed in freezing climates must be designed to prevent the effects of frost heave by which of the following methods?

- A. Conventional below the frost line footing
- B. Monolithic slab
- C. An insulated foundation system
- D. All of the above

60) After blocking and leveling, the manufactured home must be secured against the wind by an anchoring system both for homes built before and after April 1, 2007.

- A. True
- B. False

61) By law, the minimum frost depth in the Wisconsin Code is:

- A. Determined by the local weather forecaster
- B. Spelled out in the state statutes
- C. Set by rule by the Wisconsin Department of Safety & Professional Services
- D. None of the above

62) Anchoring systems are:

- A. Designed to withstand the wind load
- B. Designed to withstand the snow load as shown on the data plate
- C. Both of the above

63) Ground anchors must be able to withstand an ultimate load of 4725 lbs.

- A. True
- B. False

- 64) Tie down straps are made of either steel or aluminum.  
 A. True  
 B. False
- 65) Ground anchors must be installed to their full depth.  
 A. True  
 B. False
- 66) The minimum angle for a diagonal strap is set by the anchor manufacturer's instructions.  
 A. True  
 B. False
- 67) Skirting, if used, must not be attached in such a way as to allow water to be:  
 A. Trapped between the siding and trim  
 B. Forced up into the wall cavity  
 C. Both of the above  
 D. None of the above
- 68) Crawlspace ventilation calls for vents on at least opposite sides of the home.  
 A. True  
 B. False
- 69) Ventilation space may be reduced one square foot for every 1,500 square feet of floor area when a uniform 6-mil poly is installed under the entire floor area of the home.  
 A. True  
 B. False
- 70) Skirting if used must be made of:  
 A. Weather resistant materials  
 B. Fire resistant materials  
 C. Mold resistant materials  
 D. All of the above
- 71) An identified and accessible shutoff valve must be installed between the water supply and the inlet.  
 A. True  
 B. False
- 72) Power for exterior lights if connected in the field is connected:  
 A. Black to white, White to Black  
 B. Black to Black, White to White
- 73) Exterior close-up strips are trim that must be fastened securely and sealed with an exterior sealant.  
 A. True  
 B. False
- 74) Any poly sheeting covering exterior walls for transit before installing siding is:  
 A. Only trimmed as necessary to make a clean connection  
 B. Left in place and any tears or voids repaired  
 C. Removed completely  
 D. None of the above
- 75) Upon completion of the exterior close-up, only gaps of less than one inch are permitted between the structural elements along the mating line.  
 A. True  
 B. False
- 76) The bottom board covering must be inspected for any loosening or areas damaged by transport or installation.  
 A. True  
 B. False
- 77) Any missing insulation must be replaced, but minor tears need not be repaired in the bottom board cavity.  
 A. True  
 B. False
- 78) The Wisconsin installation code is pre-emptive meaning that local governments cannot have a lesser or more stringent standard.  
 A. True  
 B. False
- 79) Manufactured and modular homes are regulated under the same federal installation code.  
 A. True  
 B. False
- 80) The installer can vary from the installation instructions:  
 A. With site specific instructions from the manufacturer  
 B. By use of a design from a registered engineer or architect  
 C. Both of the above  
 D. None of the above

81) Manufacturers must provide at least one method for temporarily supporting a home to prevent structural and other damage.

- A. True
- B. False

82) The minimum soil bearing capacity necessary for installation of a manufactured home under SPS 321.40 before extra steps are taken is:

- A. 1000 psf
- B. 1500 psf
- C. 2000 psf
- D. 2500 psf

83) Alluvial fill, silt and clay are types of:

- A. Pots
- B. Soils
- C. ABS pads colors
- D. Pier footing depths

84) If the soil appears to be composed of peat, organic clays or uncompacted fill, a registered geologist, engineer or architect must determine the soil classification and maximum allowable soil bearing capacity.

- A. True
- B. False

85) Pier spacing and loads shown in typical tables take into consideration flood or seismic loads.

- A. True
- B. False

86) Single stack concrete block pier loads may exceed 8,000 lbs.

- A. True
- B. False

87) Concrete blocks must conform to the standard issued by what organization for use in manufactured home installation?

- A. National Fire Protection Association - NFPA
- B. American Society for Testing and Materials - ASTM
- C. Federal Emergency Management Agency - FEMA
- D. Underwriters Laboratory - UL

88) Listed means a product has been blacklisted and cannot be used for the installation of a manufactured home.

- A. True
- B. False

89) Each pier footing shall be no less than a nominal 24 inches by 24 inches.

- A. True
- B. False

90) A manufactured home installed prior to the effective date of the new installation code is not subject to any installation standard.

- A. True
- B. False

91) The ridge beam is the beam around the outer edge of the home.

- A. True
- B. False

92) On a sloped site, measures must be taken to divert water away from the home.

- A. True
- B. False

93) The home manufacturer, a professional engineer or architect must be consulted in a situation where an additional structure will be added to the home.

- A. True
- B. False

94) Each licensed installer will need how many hours of continuing education for license renewal?

- A. 4
- B. 6
- C. 12
- D. 18

95) The licensing period for installers is how many years?

- A. 1
- B. 2
- C. 3
- D. 4

96) Wisconsin installation standards must be:

- A. Exactly the same as federal standards
- B. Less stringent than federal standards
- C. At least as stringent as federal standards
- D. More stringent than federal standards

97) Manufacturer installation instructions must be:

- A. Exactly the same as federal standards
- B. Less stringent than federal standards
- C. At least as stringent as federal standards
- D. More stringent than federal standards

98) An installer can have their license application denied if they have been found responsible in a judicial or administrative forum for failure to perform an installation as required under contract or for defrauding any person with regard to the provision of installation services.

- A. True
- B. False

99) The snow load zone for Wisconsin is:

- A. North - 40 psf
- B. Middle - 30 psf
- C. South - 20 psf
- D. Wisconsin is divided between Middle and South zones.

100) An access opening under the home must be no less than:

- A. 8" by 18"
- B. 12" by 18"
- C. 18" by 18"
- D. 18" by 24"

101) Vents in skirting are to be as high as possible.

- A. True
- B. False

102) Piers used for perimeter support must be installed with the long dimension parallel to the perimeter rail.

- A. True
- B. False

103) Appliances can be vented to the area under the skirting.

- A. True
- B. False

104) Sewer drain pipes must be supported at least every:

- A. 3 feet
- B. 4 feet
- C. 6 feet
- D. 8 feet

105) Water pipes must be supported every:

- A. 3 feet
- B. 4 feet
- C. 6 feet
- D. 8 feet

106) During close up of the home, the bottom board must be returned to good repair.

- A. True
- B. False

107) Any gaps between sections must be shimmed with dimensional lumber with fastener lengths adjusted to provide adequate penetration.

- A. True
- B. False

108) A diagonal anchor tie is intended to resist horizontal or shear forces, but may also resist vertical, uplift and overturning forces.

- A. True
- B. False

109) Air conditioning units, if NOT installed by the home manufacturer but rather installed by the home installer, must be installed by a person holding an HVAC license.

- A. True
- B. False

110) Expansion rooms must be installed in accordance with designs provided by the:

- A. Home manufacturer
- B. A registered professional engineer
- C. A registered architect
- D. Any of the above

111) Where lighting fixtures are mounted on combustible surfaces such as hardboard, a limited combustible or non-combustible ring must be installed.

- A. True
- B. False

112) A person is NOT allowed to inspect the installation of a manufactured home if:

- A. They are an employee of the manufacturer who was directly involved in the sale of the particular home.
- B. A salesperson who was directly involved in the sale of the particular home.
- C. They are an installer who was directly involved in the sale of the particular home.
- D. All of the above

113) Ratings for ABS pads are printed on the pad itself.

- A. True
- B. False

114) Alternative materials can be used for installations if they are approved by the Department of Safety & Professional Services.

- A. True
- B. False

115) The home site is to be graded to permit water to drain 5 feet from the home for older homes and 10 feet for homes built on or after April 1, 2007.

- A. True
- B. False

116) Your installer's license involves what is called "general supervision." What does that mean?

- A. You generally have to know what to do.
- B. You are in charge of just supervising general aspects of the job.
- C. You don't necessarily need to be present at the job site.

117) A two-piece cap is permitted provided:

- A. Made from same material
- B. Same size
- C. Laid side by side
- D. All of the above

118) Fire separations can be found in:

- A. NFPA 501
- B. Comm 326
- C. Local ordinances
- D. All of the above

119) The manufacturer may provide the heating/cooling information on the home's data plate.

- A. True
- B. False

120) Ground moisture barrier can be located:

- A. Under footings
- B. Over footings
- C. Around footings
- D. All of the above

121) ASTM C-90-02 is:

- A. A type of gas
- B. The required minimum standard for concrete blocks
- C. The number of atmospheres of pressure for gas pipes
- D. The required minimums for gas pipe slopes

## Law and Business

122) The Uniform Dwelling Code (UDC) covers the onsite installation of a manufactured home, regardless of the type of foundation, when the manufactured home has a production date on or after \_\_\_\_\_.

- A. January 1, 2007
- B. April 1, 2007
- C. April 30, 2007
- D. January 1, 2010

123) A new dwelling or manufactured home placed on a new or existing foundation shall meet the permitting, construction and inspection requirements.

- A. True
- B. False

124) The UDC does not apply to:

- A. Farm Buildings
- B. Detached Decks
- C. Motor Homes and RV's
- D. All of the above

125) The code does not apply to dwellings located on Indian reservation land held in trust by the United States.

- A. True
- B. False

126) Municipalities intending to exercise jurisdiction shall, by ordinance, adopt the code in its entirety.

- A. True
- B. False

127) All plans submitted for approval shall be accompanied by sufficient data, calculations and information to determine if the dwelling will meet the requirements of the code.

- A. True
- B. False

128) Construction contracts must be in writing.

- A. True
- B. False

129) A valid construction contract just needs a price and signature.

- A. True
- B. False



130) Giving the proper lien notice can be done as a part of the contract or as a separate document.

- A. True
- B. False

131) Under the Right to Cure Law, a homeowner must give access to the home for repairs or they cannot sue.

- A. True
- B. False

132) The two important parts of the Right to Cure Law are the notice and the \_\_\_\_\_.

- A. Signed contract
- B. Arbitration Clause
- C. Brochure

133) In response to a claim under the Right to Cure Law, the builder has \_\_\_\_\_ days to respond to the first notice.

- A. 7
- B. 10
- C. 14
- D. 15

134) Notice between the parties under the Right to Cure Law must be in writing.

- A. True
- B. False

135) The wording of the lien notice is provided in state law, it must be in at least bold \_\_\_\_\_ point type.

- A. 6
- B. 8
- C. 10
- D. 12

136) Subs must provide lien notices within 60 days of their work.

- A. True
- B. False

137) All money received from an owner is to be treated as "trust funds" by the builder.

- A. True
- B. False

138) Which of the following are misrepresentations prohibited by ATCP 110?

- A. The work requires no regular maintenance.
- B. The work meets or exceeds federal, state or local standards.
- C. The seller is approved or recommended by a government agency.
- D. All of the above if the statement is untrue.

139) There are \_\_\_\_\_ bait and switch tactics outlawed by ATCP 110.

- A. 1
- B. 4
- C. 5
- D. 6

140) Using a competitor's trademark in relation to your work is prohibited by SPS 320.

- A. True
- B. False

141) The statute of repose in Wisconsin is \_\_\_\_\_ years.

- A. 3
- B. 7
- C. 10

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