

Construction Standards & Energy Conservation

Wisconsin Department of Safety and Professional Services

Course Identification Number: 16188

Expiration Date: October 13, 2024

Education Credit: 12 Hours

Course Provider

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**Course Type: Dwelling Contractor Qualifier Certification
UDC Construction Inspector Certification**

Construction Standards

This course (12 hours of continuing education) is designed to familiarize Contractors and Inspectors with information on the updated construction codes required for building a home, according to the Uniform Dwelling Code (UDC).

Topics covered under SPS 321 (Construction Standards) include Design Criteria, Excavations, Footings, Foundations, Floors, Walls, Roof and Ceilings, Fireplace Requirements, Construction in Floodplains and Installation of Manufactured Homes.

This course is a distance learning or e-learning course, which allows the attendee to complete the course on their time schedule.

EXAM

360 questions related to the Reference Materials are used to test the attendee on their comprehension of the materials. A 70% score will need to be attained in order to pass this course.

Outline of Course

SPS 321.01 Scope.

Subchapter II — Design Criteria

SPS 321.02 Loads and materials.

SPS 321.03 Exits.

SPS 321.035 Interior circulation.

SPS 321.04 Stairways and elevated areas.

SPS 321.042 Ladders.

SPS 321.045 Ramps.

SPS 321.05 Natural light and natural ventilation.

SPS 321.06 Ceiling height.

- SPS 321.07 Attic and crawl space access.
- SPS 321.08 Fire separation and dwelling unit separation.
- SPS 321.085 Fireblocking.
- SPS 321.09 Smoke detectors.
- SPS 321.095 Automatic fire sprinklers.
- SPS 321.10 Protection against decay and termites.
- SPS 321.11 Foam plastic.
- SPS 321.115 Installation of elevators or dumbwaiters.

Subchapter III — Excavations

- SPS 321.12 Grade.
- SPS 321.125 Erosion control and sediment control.
- SPS 321.126 Storm water management.
- SPS 321.13 Excavations adjacent to adjoining property.
- SPS 321.14 Excavations for footings and foundations.

Subchapter IV — Footings

- SPS 321.15 Footings.
- SPS 321.16 Frost protection.
- SPS 321.17 Drain tiles.

Subchapter V — Foundations

- SPS 321.18 Foundations.

Subchapter VI — Floors

- SPS 321.19 Floor design.
- SPS 321.20 Concrete floors.
- SPS 321.203 Garage floors.
- SPS 321.205 Wood floors in contact with the ground.
- SPS 321.21 Precast concrete floors.
- SPS 321.22 Wood frame floors.
- SPS 321.225 Decks.

Subchapter VII — Walls

- SPS 321.23 Wall design.
- SPS 321.24 Exterior covering.
- SPS 321.25 Wood frame walls.
- SPS 321.26 Masonry walls.

Subchapter VIII — Roof and Ceilings

- SPS 321.27 Roof design.
- SPS 321.28 Weather protection for roofs.

Subchapter IX — Fireplace Requirements

- SPS 321.29 Masonry fireplaces.
- SPS 321.30 Masonry chimneys.

SPS 321.32 Factory–built fireplaces.

Subchapter X — Construction in Floodplains

SPS 321.33 Construction in floodplains.

SPS 321.34 Construction in coastal floodplains.

Subchapter XI — Installation of Manufactured Homes

SPS 321.40 Installation standards

Energy Conservation

Topics covered under SPS 322 (Energy Conservation) include Scope, Application, Definitions, Insulation Materials and Installation, Dwelling Thermal Envelope, Systems and Simulated Performance Alternative.

Subchapter I — Scope and Application

SPS 322.01 Scope.

SPS 322.02 Application.

Subchapter II — Definitions

SPS 322.10 Definitions.

Subchapter III — Insulation Materials and Installation

SPS 322.20 Basic requirements.

SPS 322.21 Protection of insulation.

Subchapter IV — Dwelling Thermal Envelope

SPS 322.30 General design requirements.

SPS 322.31 Prescriptive insulation and fenestration criteria.

SPS 322.32 Specific insulation requirements.

SPS 322.33 Slab floors.

SPS 322.34 Crawl spaces.

SPS 322.35 Thermally isolated sunrooms.

SPS 322.36 Fenestration.

SPS 322.37 Air leakage.

SPS 322.38 Vapor retarders.

SPS 322.39 Ventilation and moisture control.

Subchapter V — Systems

SPS 322.40 Indoor temperatures and equipment sizing.

SPS 322.41 Temperature control.

SPS 322.42 Duct systems.

SPS 322.43 Duct and plenum sealing.

SPS 322.44 Pipe insulation.

SPS 322.45 Air conditioner and heat pump efficiencies.

SPS 322.46 Replacement furnace and boiler efficiencies.

Subchapter VI — Simulated Performance Alternative

SPS 322.50 General.

SPS 322.51 Performance-based compliance.

SPS 322.52 Documentation.

SPS 322.53 Calculation procedure.