

Comm 21 (Construction Standards) and Comm 22 (Energy Conservation)

Wisconsin Department of Commerce

Course Identification Number: 11256

Expiration Date: 12/29/2014

Education Credit: 12 Hours

Course Provider: Kevin Wunderlin LLC

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Course Type: Continuing Education

Dwelling Contractor Qualifier

UDC Construction Inspector

Comm 21 – 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 Comm 21 include Design Criteria, Excavations, Footings, Foundations, Floors, Walls, Roof and Ceilings, Fireplace Requirements, Construction in Floodplains and Installation of Manufactured Homes.

Outline of Course

Comm 21.01 Scope.

Subchapter II — Design Criteria

Comm 21.02 Loads and materials.

Comm 21.03 Exits.

Comm 21.035 Interior circulation.

Comm 21.04 Stairways and elevated areas.

Comm 21.042 Ladders.

Comm 21.045 Ramps.

Comm 21.05 Natural light and natural ventilation.

Comm 21.06 Ceiling height.

Comm 21.07 Attic and crawl space access.

Comm 21.08 Fire separation and dwelling unit separation.

Comm 21.085 Fireblocking.

Comm 21.09 Smoke detectors.

Comm 21.095 Automatic fire sprinklers.

- Comm 21.10 Protection against decay and termites.
- Comm 21.11 Foam plastic.
- Comm 21.115 Installation of elevators or dumbwaiters.

Subchapter III — Excavations

- Comm 21.12 Grade.
- Comm 21.125 Erosion control and sediment control.
- Comm 21.126 Storm water management.
- Comm 21.13 Excavations adjacent to adjoining property.
- Comm 21.14 Excavations for footings and foundations.

Subchapter IV — Footings

- Comm 21.15 Footings.
- Comm 21.16 Frost protection.
- Comm 21.17 Drain tiles.

Subchapter V — Foundations

- Comm 21.18 Foundations.

Subchapter VI — Floors

- Comm 21.19 Floor design.
- Comm 21.20 Concrete floors.
- Comm 21.203 Garage floors.
- Comm 21.205 Wood floors in contact with the ground.
- Comm 21.21 Precast concrete floors.
- Comm 21.22 Wood frame floors.
- Comm 21.225 Decks.

Subchapter VII — Walls

- Comm 21.23 Wall design.
- Comm 21.24 Exterior covering.
- Comm 21.25 Wood frame walls.
- Comm 21.26 Masonry walls.

Subchapter VIII — Roof and Ceilings

- Comm 21.27 Roof design.
- Comm 21.28 Weather protection for roofs.

Subchapter IX — Fireplace Requirements

- Comm 21.29 Masonry fireplaces.
- Comm 21.30 Masonry chimneys.
- Comm 21.32 Factory-built fireplaces.

Subchapter X — Construction in Floodplains

- Comm 21.33 Construction in floodplains.
- Comm 21.34 Construction in coastal floodplains.

Subchapter XI — Installation of Manufactured Homes

- Comm 21.40 Installation standards.

Comm 22 – Energy Conservation

Topics covered under Comm 22 include Scope, Application, Definitions, Insulation Materials and Installation, Dwelling Thermal Envelope, Systems and Simulated Performance Alternative.

Subchapter I — Scope and Application

Comm 22.01 Scope.

Comm 22.02 Application.

Subchapter II — Definitions

Comm 22.10 Definitions.

Subchapter III — Insulation Materials and Installation

Comm 22.20 Basic requirements.

Comm 22.21 Protection of insulation.

Subchapter IV — Dwelling Thermal Envelope

Comm 22.30 General design requirements.

Comm 22.31 Prescriptive insulation and fenestration criteria.

Comm 22.32 Specific insulation requirements.

Comm 22.33 Slab floors.

Comm 22.34 Crawl spaces.

Comm 22.35 Thermally isolated sunrooms.

Comm 22.36 Fenestration.

Comm 22.37 Air leakage.

Comm 22.38 Vapor retarders.

Comm 22.39 Ventilation and moisture control.

Subchapter V — Systems

Comm 22.40 Indoor temperatures and equipment sizing.

Comm 22.41 Temperature control.

Comm 22.42 Duct systems.

Comm 22.43 Duct and plenum sealing.

Comm 22.44 Pipe insulation.

Comm 22.45 Air conditioner and heat pump efficiencies.

Comm 22.46 Replacement furnace and boiler efficiencies.

Subchapter VI — Simulated Performance Alternative

Comm 22.50 General.

Comm 22.51 Performance-based compliance.

Comm 22.52 Documentation.

Comm 22.53 Calculation procedure.