ICCCFO Spring Conference

Health, Wellness, Your Building and You: WELL Building Standard Primer

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Woodstock North High School District 200 / Accessible green roof over science lab.
Joliet Junior Community College / Campus Center / Accessible green roof garden
Moraine Valley Community College / Southwest Education Center / Accessible green roof garden and educational space
what’s next?

2017

ICCCFO 20170427 – Health, Wellness, Your Building and You: WELL Building Standard Primer
LIVING BUILDING CHALLENGE®
3.1
A Visionary Path to a Regenerative Future

INTERNATIONAL LIVING FUTURE INSTITUTE®
ICCCFO 20170427 – Health, Wellness, Your Building and You: WELL Building Standard Primer
Levels of WELL Certification
WELL Certification Process

1. Registration
2. Documentation Requirements
3. Performance Verification
4. Certification
5. Recertification
## WELL BUILDING STANDARD® FEATURES MATRIX

This table shows which features are Pre-requisites and Optimizations for the different typologies of the standard for commercial and institutional offices. Refer to the tables in the beginning of each concept for details about the applicability of specific parts.

<table>
<thead>
<tr>
<th>WELL Building Standard v1</th>
<th>Core and Shell</th>
<th>New and Existing Interiors</th>
<th>New and Existing Buildings</th>
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<tbody>
<tr>
<td>01. Air quality standards</td>
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<td>02. Ventilation</td>
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<td>03. Radon control</td>
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<td>04. VOC reduction</td>
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<td>05. IAQ monitoring</td>
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<td>06. Water and wastewater</td>
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<td>07. Construction materials management</td>
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<td>08. HVAC systems</td>
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<td>09. Energy performance</td>
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<td>10. Water efficiency</td>
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<td>11. Building materials</td>
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<td>18. Building sustainability</td>
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<td>20. Building aesthetics</td>
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<td>21. Building accessibility</td>
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<td>22. Building comfort</td>
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<td>23. Building health</td>
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<td>24. Building safety</td>
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WELL Building Standard v1 Introduction
INTENT

The WELL Building Standard for Air promotes clean air through reducing or minimizing the sources of indoor air pollution, requiring optimal indoor air quality to support the health and well-being of building occupants.

AIR FEATURE LEVEL MATRIX

<table>
<thead>
<tr>
<th>AIR QUALITY STANDARDS</th>
<th>Care and Shell</th>
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02 SMOKING BAN

- Indoor Smoking Ban
- Outdoor Smoking Ban

03 VENTILATION EFFECTIVENESS

- Ventilation Design
- Demand Controlled Ventilation
- System Balancing

04 VOC REDUCTION

- Interior Finishes and Finishes
- Interior Adhesives and Sealants
- Flooring
- Paint

05 AIR FILTRATION

- Particulate Filtration
- Air Filtration Maintenance

06 MICROBES AND MOLD CONTROL

- Cooling Coil Mold Reduction
- Mold Remediators

07 CONSTRUCTION POLLUTION MANAGEMENT

- Dust Protection
- Dust Control
- Moisture Absorber Management

08 HEALTHY ENTRANCE

- Perimeter Entry Walk-Off Systems
- Entryway Air Seal

09 CLEANING PROTOCOL

- Cleaning Plan for Occupied Spaces

AIR QUALITY STANDARDS

Pollutants generated indoors can lead to a variety of symptoms and health conditions. Volatile organic compounds (VOCs), combustion byproducts and airborne particulate matter are known to trigger nausea, headaches, asthma, respiratory irritation and allergies. While ambient outdoor air is often better quality, natural ventilation methods, operable doors and windows, and general building envelope infiltration can diminish indoor air quality if external air quality parameters are poor.

This feature requires an assessor to complete a performance test after occupancy as an independent means of verifying that the building, whether naturally or mechanically ventilated, is meeting critical air quality requirements.

PART 1: STANDARDS FOR VOLATILE SUBSTANCES

The following conditions are met:

a. Formaldehyde levels less than 21 ppm
b. Total volatile organic compounds less than 500 μg/m³

PART 2: STANDARDS FOR PARTICULATE MATTER AND INORGANIC GASES

The following conditions are met:

a. Carbon monoxide less than 9 ppm
b. PM₁₀ less than 15 μg/m³
c. PM₄₅ less than 50 μg/m³
d. Ozone less than 51 ppm

PART 3: RADON

The following conditions are met in projects with regularly occupied spaces at or below grade:

a. Radon less than 4 pCi/L in the lowest occupied level of the project.

WELL Building Standard v1

Air
Create **optimal indoor air quality** to support the health and well-being of building occupants.
Create **optimal indoor air quality** to support the health and well-being of building occupants.
Promote **safe and clean water** through proper filtration and other methods, and require the appropriate quality of water for various uses.
water
water
water
water
water
nourishment

Require the availability of fresh, wholesome foods, limit unhealthy ingredients and **encourage better eating habits** and food culture.
nourishment

Require the availability of fresh, wholesome foods, limit unhealthy ingredients and encourage better eating habits and food culture.
nourishment

College of Lake County/ Student Café with abundant daylight and views to nature
Provide illumination guidelines to minimize disruption to the body’s circadian system, enhance productivity and provide appropriate visual acuity where needed. It also requires specialized lighting systems designed to increase alertness, enhance occupant experience and promote sleep.
Moraine Valley Community College / Southwest Education Center / Classroom with natural light, views and daylight harvesting
Joliet Junior College / Campus Center / Student Café with abundant daylight and views to nature
Joliet Junior College / Campus Center / Boardroom with abundant daylight and views to nature
comfort

Establish requirements designed to create distraction-free, productive and comfortable indoor environments.
fitness

Promotes the seamless integration of physical activity into everyday life by providing the opportunities and support for an active lifestyle and discouraging sedentary behaviors.
mind

Require design, technology and treatment strategies designed to provide a physical environment that optimizes cognitive and emotional health.
mind
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- air
- water
- nourishment
- light
- fitness
- comfort
- mind
air
water
nourishment
light
fitness
comfort
mind
thank you!

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