**Summary of Changes**

**Advanced Commercial Buildings   
Energy Management Model**

The Advanced Commercial Buildings Energy Model was updated in October 2018. The update focused solely on the health and safety-related competencies and is shown below.

# Tier 1 – Personal Effectiveness Competencies

* No changes were made to the Tier 1 Competencies.

# Tier 2 – Academic Competencies

* Added key behavior description to Communication block.

## 2.1 Communication – Listening & Speaking

* Added key behavior description: 2.1.22 Ask questions or report problems or concerns to people in authority when information or procedures are unclear or need improvement, or when feeling unsafe or threatened in the workplace.

# Tier 3- Workplace Competencies

* No changes were made to the Tier 3 Competencies.

# Tier 4- Industry-Wide Technical Competencies

* Added and removed key behavior titles and descriptions to 4.4 Health, Safety, & Security block and updated several existing key behavior descriptions.
* Added key behavior titles *4.4.1 Maintaining a healthy and safe environment* & *4.4.2 Safeguarding one’s person*

## 4.4 Health, Safety, & Security

* 4.4.1 Maintaining a healthy and safe environment
  + Added key behavior title *4.4.1 Maintaining a healthy and safe environment*
  + Added key behavior descriptions:
    - 4.4.1.1 Take actions to ensure the safety of self and others, in accordance with established personal and jobsite safety practices
    - 4.4.1.2 Anticipate and prevent work-related injuries and illnesses
    - 4.4.1.3 Comply with federal, state, and local regulations, and company health and safety policies (including OSHA)
    - 4.4.1.4 Recognize common hazards (including biohazards, potential contaminants, and other hazardous chemicals) and unsafe conditions that occur at work, their risks, and appropriate controls to address them
    - 4.4.1.5 Follow organizational procedures and protocols for workplace emergencies, including safe evacuation, and emergency response
    - 4.4.1.9 Maintain a sanitary and clutter-free work environment
    - 4.4.1.10 Administer first aid or CPR if trained and summon assistance as needed
  + Edited key behavior descriptions:
    - ~~4.4.8~~ 4.4.1.6 Understand the health effects of contaminants (including stay times)
    - ~~4.4.12~~ 4.4.1.7 Recognize potential environmental, health and safety (EHS) hazards and risks
    - ~~4.4.17~~ 4.4.1.8 Follow ventilation requirements for consumables
    - ~~4.4.5~~ 4.4.1.11 Properly handle, store, and dispose of hazardous materials ~~disposal~~ including remediation and clean up if necessary (combined with 4.4.4)
* Added key behavior title 4.4.2 Safeguarding one’s person
  + Added key behavior descriptions:
    - 4.4.2.1 Engage in safety training and security training and emergency drills
    - 4.4.2.4 Recognize how workplace risks can affect one’s life and one’s family
    - 4.5.2.5 Understand the legal rights of workers regarding workplace safety and protection from hazards
    - 4.4.2.6 Report injuries, incidents, and workplace hazards to a supervisor as soon as safely possible
    - 4.4.2.7 Identify worker's rights under law including obtaining safety training in a language you understand, being protected from toxic chemicals, and being provided required safety gear
    - 4.4.2.8 Contribute to discussion of safety concerns in the workplace, making suggestions, and reporting injuries, incidents, and hazards, as appropriate
  + Edited key behavior descriptions:
    - ~~4.4.10~~ 4.4.2.2 Use equipment and tools safely; understand lock-out/tag-out safety procedures
    - ~~4.4.9~~ 4.4.2.3 Use appropriate personal protective equipment (PPE) and understand their limitations ~~of PPE~~
  + Deleted key behavior descriptions:
    - 4.4.1 Best practices for emergency drills
    - 4.4.2 Biohazards and hazardous chemicals
    - 4.4.3 Emergency procedures including first aid and CPR
    - 4.4.6 Hazards management
    - 4.4.7 Health and safety\*\*\*
    - 4.4.11 Potential contaminants
    - 4.4.13 Reporting requirements for emergencies
    - 4.4.14 Safety Codes and Standards (including OSHA)
    - 4.4.15 Safety practices
    - 4.4.16 Security policies and procedures