

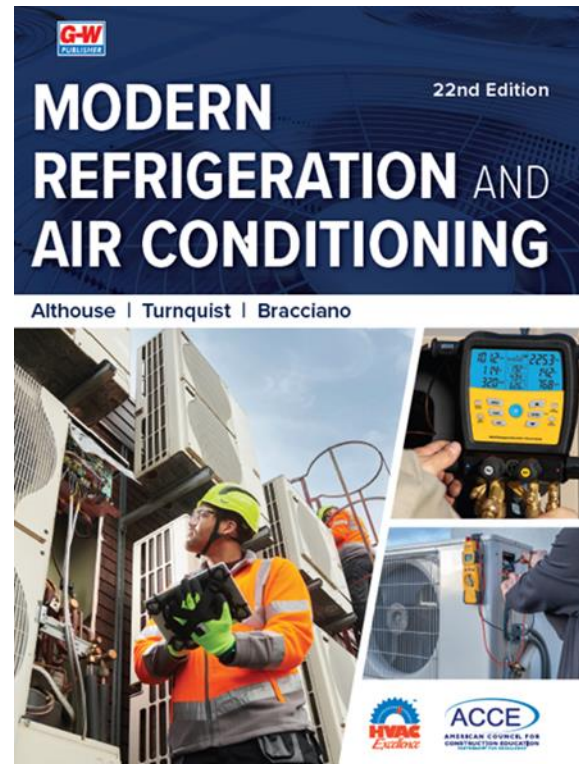


*Correlation of*  
**Modern Refrigeration and Air Conditioning**, by Althouse, Turnquist, Bracciano  
 (Goodheart-Willcox Publisher ©2025)  
 to  
**HVAC Excellence Competencies Task List: Safety**

The following chart correlates the *Modern Refrigeration and Air Conditioning* textbook (©2025) to an area of the HVAC Excellence Competencies Task List.

The chart lists individual competency and task standards, and the corresponding chapter numbers from *Modern Refrigeration and Air Conditioning*.

For more information on HVAC Excellence and related certifications, please visit:  
[www.hvacexcellence.org](http://www.hvacexcellence.org).



Competency/Task	Textbook Chapter
<b>Students must have knowledge and be able to demonstrate proficiency in:</b>	
Being able to explain the importance of OSHA in providing a healthful and safe work environment	Chapters 2
Locating OSHA Standards references applicable to heating, air conditioning, and refrigeration industry specific to hazardous conditions and practices (Introduction to OSHA Standards)	Chapters 2
Recognizing the aspects of the General Safety and Health Provisions (OSHA Standard 1962 Subpart C)	Chapter 2

**Correlation of *Modern Refrigeration and Air Conditioning, 22e* to  
HVAC Excellence Competencies Task List: Safety—page 2**

<b>Competency/Task</b>	<b>Textbook Chapter</b>
How to implement preventive measures for accidents in their workplace (OSHA Standard Subpart D – Occupational Health and Environment Controls)	Chapter 2
Recognizing, understanding use, and describing the required types of personal protective equipment (PPE) for the heating, air conditioning, and refrigeration industry and the requirements for using OSHA standards (Subpart E – Personal Protective Equipment)	Chapter 2
Understanding the requirements for fire protection and air quality in the workplace (OSHA Standards, Subpart F – Fire Protection and Prevention)	Chapter 2
Recognizing types of rigging equipment used to protect employees (OSHA Standard, Subpart H – Rigging; Subpart N – Crane and Rigging)	—
Recognizing the life-threatening health and safety dangers of welding and cutting metal in the air conditioning and refrigeration industry (OSHA Standard, Subpart J – Welding and Cutting)	—
Recognizing needed procedures for protecting workers from dangerous falls (OSHA Standard, Subpart M – Fall Protection)	Chapter 2
Hazards related with working among excavation and confined spaces sites (OSHA Standards, Subpart P – Excavations)	Chapter 2
Hazards of performing jobs on or around stairways, ladders, and at worksites (OSHA Standard, Subpart X – Stairways and Ladders)	Chapter 2
Identifying common electrical hazards (OSHA Standards, Subpart K – Electrical Standards)	Chapter 2