



Correlation of Modern Refrigeration and Air Conditioning, by Althouse, Turnquist, Bracciano (Goodheart-Willcox Publisher ©2021)

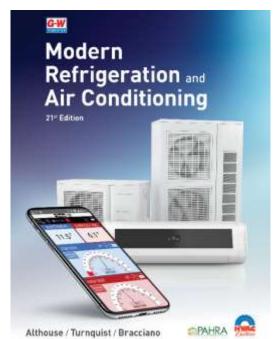
to

AHRI Curriculum Guide: XXIII. Regulations

The following chart correlates the Modern Refrigeration and Air Conditioning textbook (©2021) to a section of the Curriculum Guide developed by Air-Conditioning, Heating, and Refrigeration Institute (AHRI) and used for PAHRA accreditation.

The chart lists the Curriculum Guide's knowledge and task competency objectives and the corresponding chapter numbers from Modern Refrigeration and Air Conditioning.

For more information on the Partnership for Air-Conditioning, Heating, Refrigeration Accreditation (PAHRA) and related accreditation, please visit: www.pahrahvacr.org



XXIII.A. Codes and Standards		
Knowledge	Textbook Chapter(s)	
1. Describe the reasons for codes.	Chapters 1, 8, 9, 10, 13, 15, 16, 17, 18, 22, 23, 28, 29, 30, 31, 32, 33, 41, 52, Appendix	
2. Describe the three model codes:		
a. Building Officials and Code Administrators (BOCA), National Mechanical Code		
b. Southern Building Code Congress International (SBCCI), Standard Mechanical Code		
c. International Conference of Building Officials (ICBO), Uniform Mechanical Code		
3. Identify the codes and standards for the applicable area, locality, and state.	Chapters 9, 13, 15, 16, 41, 52	
4. Discuss the relationship between codes and manufacturers' installation instructions.	Chapters 9, 13, 15, 16, 41, 52, Appendix	

Knowledge	Textbook Chapter(s)
 Identify pertinent standards published by the following organizations: 	
a. AGA	Chapter 41
b. AMCA	Chapter 29
c. ANSI	Chapters 9, 23, 41, Appendix
d. ARI	Chapters 2, 10, 11, 33, 36, 37, Appendix
e. ASHRAE	Chapters 2, 9, 23, 27, 28, 29, 37, 41, 45, 47, 50, 52, 53, Appendix
f. IEC	
g. ISO	Chapter 7
h. SMACNA	Chapter 29
i. UL	Chapters 9, 16, Appendix
XXIII.B. Regulations Affecting Ozor	ne Depletion
Knowledge	Textbook Chapter(s)
1. Explain ozone depletion.	Chapters 9, 28, Appendix
2. Explain significance of the Montreal Protocol.	Chapter 9, Appendix
3. Explain significance of the Clean Air Act.	Chapters 9, 10, Appendix
4. Explain EPA requirements:	
a. technician certification	Chapter 1, Appendix
b. refrigerant recover, recycle, and reclaim	Chapters 1, 9, 10, 11, Appendix
c. disposal of systems	Chapter 1, Appendix
d. labeling	Chapter 1, Appendix
e. shipping	Chapter 1, Appendix
f. leak detection	Chapters 1, 10, 11, Appendix
g. Significant New Alternatives Policy Program (SNAP)	Chapters 1, 9, Appendix
h. Recordkeeping	Chapter 1, Appendix
5. Know Department of Transportation (DOT) requirements concerning transportation of refrigerants.	Chapters 9, 10, 55, Appendix
6. Determine if refrigerant container is DOT-approved and whether it needs to be retested.	Chapters 9, 10, 55, Appendix
7. Determine if recovery/recycle equipment is certified and meet requirements.	ts Chapters 9, 10, 11, Appendix

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XXIII.B. Regulations Affecting Ozone Depletion (continued)		
Tasks		Textbook Chapter(s)
1.	Dispose of empty nonrefillable cylinders.	Chapters 9, 10, 11, Appendix
2.	Use recovery equipment and prepare system for disposal.	Chapters 9, 10, 11, Appendix
3.	Obtain federal EPA technician certification.	Chapter 9, Appendix
XXIII.C. Other Regulations		
Knowl	edge	Textbook Chapter(s)
1.	Explain global warming.	Chapter 9
2.	Know OSHA work rules.	Chapters 9, 28
3.	Explain indoor air quality (IAQ) standards (ASHRAE Std. 62).	Chapters 27, 28, 29
4. and i	Explain impact of state and local codes on system application retrofit.	Chapters 9, 10, 52, Appendix
5.	Explain proper disposal of oil, components, and other materials.	Chapters 9, 10, Appendix
6.	Explain state and local licensing requirements.	Chapters 9, 10, Appendix
7.	Explain DOT regulations.	Chapters 9, 10, Appendix