

**Crosswalk of AHRI Curriculum**  
**Modern Refrigeration and Air Conditioning Textbook ©2021**

Textbook Section		Section 1			Section 2		Section 3			
Chapter Number		1	2	3	4	5	6	7	8	9
<b>AHRI Curriculum Areas</b>	Introduction to Heating						✓	✓	✓	
	Principles of Thermodynamics and Heat Transfer						✓	✓	✓	✓
	Safety	✓	✓	✓	✓	✓	✓	✓		
	Tools and Equipment			✓	✓	✓				
	Piping and Piping Practices				✓	✓				
	Electricity									
	Controls								✓	
	Solid State Electronics									
	Load Calculations							✓	✓	✓
	Refrigerant System Components				✓	✓			✓	✓
	Air-Conditioning Systems				✓				✓	
	Heat Pump Systems				✓	✓			✓	
	Heating Systems			✓	✓					✓
	Commercial Refrigeration			✓	✓	✓	✓	✓	✓	✓
	Air Handling				✓					
	System Installation and Start-Up		✓	✓	✓	✓				
	System Servicing and Troubleshooting			✓	✓	✓				
	Indoor Air Quality									
	Preventive Maintenance			✓	✓	✓				
	Refrigerant Recovery	✓			✓	✓			✓	
	Refrigerant Retrofits									
Refrigerants and Lubricants				✓						
Regulations	✓	✓		✓	✓					
Professional Service	✓		✓							

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Textbook Section		Section 4			Section 5			Section 6			
Chapter Number		10	11	12	13	14	15	16	17	18	19
<b>AHRI Curriculum Areas</b>	Introduction to Heating										
	Principles of Thermodynamics and Heat Transfer	✓	✓								
	Safety	✓	✓	✓		✓			✓		
	Tools and Equipment		✓	✓	✓	✓			✓	✓	✓
	Piping and Piping Practices										
	Electricity				✓	✓	✓	✓	✓	✓	✓
	Controls				✓	✓	✓	✓	✓	✓	✓
	Solid State Electronics				✓	✓	✓	✓	✓		✓
	Load Calculations	✓									
	Refrigerant System Components	✓	✓	✓			✓	✓	✓	✓	
	Air-Conditioning Systems		✓	✓		✓	✓		✓	✓	✓
	Heat Pump Systems	✓	✓	✓	✓	✓	✓	✓	✓		✓
	Heating Systems		✓	✓	✓	✓		✓	✓	✓	✓
	Commercial Refrigeration	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Air Handling					✓		✓	✓		✓
	System Installation and Start-Up		✓	✓	✓	✓		✓	✓		✓
	System Servicing and Troubleshooting		✓	✓						✓	
	Indoor Air Quality										
	Preventive Maintenance		✓	✓						✓	
	Refrigerant Recovery	✓	✓	✓							
Refrigerant Retrofits	✓	✓	✓					✓			
Refrigerants and Lubricants	✓	✓	✓								
Regulations	✓	✓	✓		✓		✓	✓	✓	✓	
Professional Service											

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Textbook Section		Section 7		Section 8					
Chapter Number		20	21	22	23	24	25	26	27
<b>AHRI Curriculum Areas</b>	Introduction to Heating			✓	✓	✓	✓		✓
	Principles of Thermodynamics and Heat Transfer				✓	✓	✓		
	Safety						✓		
	Tools and Equipment			✓	✓		✓		
	Piping and Piping Practices				✓		✓		
	Electricity	✓	✓	✓	✓	✓	✓	✓	
	Controls		✓	✓	✓		✓	✓	
	Solid State Electronics					✓		✓	
	Load Calculations			✓		✓	✓		
	Refrigerant System Components	✓	✓	✓	✓		✓		✓
	Air-Conditioning Systems		✓	✓	✓	✓	✓	✓	✓
	Heat Pump Systems			✓	✓				
	Heating Systems					✓			
	Commercial Refrigeration	✓						✓	✓
	Air Handling								
	System Installation and Start-Up			✓	✓		✓		
	System Servicing and Troubleshooting			✓	✓		✓		
	Indoor Air Quality								
	Preventive Maintenance		✓	✓	✓		✓		✓
	Refrigerant Recovery		✓	✓	✓				
	Refrigerant Retrofits		✓	✓	✓		✓		
Refrigerants and Lubricants		✓	✓						
Regulations			✓	✓		✓			
Professional Service									

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Textbook Section		Section 9					Section 10					
Chapter Number		28	29	30	31	32	33	34	35	36	37	38
<b>AHRI Curriculum Areas</b>	Introduction to Heating	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Principles of Thermodynamics and Heat Transfer	✓							✓			
	Safety							✓				
	Tools and Equipment	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
	Piping and Piping Practices			✓	✓		✓					✓
	Electricity			✓	✓		✓	✓	✓	✓	✓	✓
	Controls			✓	✓		✓	✓	✓	✓	✓	✓
	Solid State Electronics		✓		✓							
	Load Calculations	✓	✓	✓	✓	✓						
	Refrigerant System Components	✓		✓	✓	✓	✓	✓		✓	✓	✓
	Air-Conditioning Systems	✓	✓	✓	✓		✓					✓
	Heat Pump Systems						✓			✓	✓	
	Heating Systems	✓		✓	✓	✓	✓	✓	✓			✓
	Commercial Refrigeration					✓			✓			
	Air Handling	✓	✓	✓	✓		✓					
	System Installation and Start-Up	✓		✓	✓		✓	✓	✓	✓	✓	✓
	System Servicing and Troubleshooting	✓		✓			✓					
	Indoor Air Quality	✓	✓	✓	✓							
	Preventive Maintenance		✓		✓		✓	✓	✓	✓	✓	
	Refrigerant Recovery											
Refrigerant Retrofits												
Refrigerants and Lubricants												
Regulations	✓	✓	✓	✓	✓	✓						
Professional Service												

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Textbook Section		Section 11		Section 12					
Chapter Number		39	40	41	42	43	44	45	46
<b>AHRI Curriculum Areas</b>	Introduction to Heating	✓	✓	✓					
	Principles of Thermodynamics and Heat Transfer	✓		✓		✓	✓	✓	✓
	Safety								
	Tools and Equipment								
	Piping and Piping Practices					✓			
	Electricity	✓	✓	✓		✓	✓	✓	
	Controls	✓	✓			✓	✓	✓	
	Solid State Electronics	✓							
	Load Calculations	✓	✓				✓	✓	
	Refrigerant System Components		✓	✓		✓	✓	✓	✓
	Air-Conditioning Systems	✓	✓				✓	✓	
	Heat Pump Systems						✓	✓	
	Heating Systems								
	Commercial Refrigeration			✓		✓	✓	✓	✓
	Air Handling								
	System Installation and Start-Up								
	System Servicing and Troubleshooting								
	Indoor Air Quality								
	Preventive Maintenance			✓					✓
	Refrigerant Recovery							✓	
	Refrigerant Retrofits					✓			
Refrigerants and Lubricants									
Regulations		✓	✓			✓	✓		
Professional Service		✓							

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Textbook Section		Section 13				Section 14	
Chapter Number		47	48	49	50	51	52
<b>AHRI Curriculum Areas</b>	Introduction to Heating						
	Principles of Thermodynamics and Heat Transfer		✓	✓			
	Safety	✓	✓	✓	✓		
	Tools and Equipment	✓	✓	✓	✓		
	Piping and Piping Practices	✓	✓	✓	✓	✓	✓
	Electricity	✓	✓	✓	✓		✓
	Controls	✓	✓	✓	✓		
	Solid State Electronics						
	Load Calculations					✓	✓
	Refrigerant System Components	✓	✓	✓	✓	✓	✓
	Air-Conditioning Systems		✓	✓	✓		
	Heat Pump Systems						
	Heating Systems						
	Commercial Refrigeration	✓	✓	✓	✓	✓	✓
	Air Handling						
	System Installation and Start-Up			✓	✓		
	System Servicing and Troubleshooting						
	Indoor Air Quality						
	Preventive Maintenance		✓	✓	✓		
	Refrigerant Recovery		✓	✓	✓	✓	
	Refrigerant Retrofits				✓		
	Refrigerants and Lubricants			✓	✓		
Regulations	✓	✓		✓	✓		
Professional Service							