

**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
<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		
Chapter Number		9	10	11	12	13	14
<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 6				Section 7				
Chapter Number		15	16	17	18	19	20	21	22	23
<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 8			Section 9			
Chapter Number		24	25	26	27	28	29	30
<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 10						
Chapter Number		31	32	33	34	35	36	37
<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					
Chapter Number		38	39	40	41	42	43
<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 12			Section 13		
Chapter Number		44	45	46	47	48	49
<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 14		Section 15			
Chapter Number		50	51	52	53	54	55
<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						