CO2 Systems: Total System Integration and Troubleshooting

December 2–3, 2026 | Stockton, CA

Wednesday, December 2

Day 1	Sonoma/Napa	Training Session
8:30AM - 10:00AM	Part I	Complete System Understanding
10:00AM - 10:15AM	BREAK	
10:15AM - 12:00PM	Part II	Understanding the P&ID, Wiring, and Control Diagrams
12:00PM - 1:00PM	LUNCH	
1:00PM - 3:00PM	Part III	Hands-On Workshop: Building a Sequence of Operations

Thursday, December 3

Day 2	Sonoma/Napa	Training Session
8:30AM - 10:00AM	Part IV	Irreconcilable Differences: Troubleshooting When the System Doesn't Match the Diagram
10:00AM - 10:15AM	BREAK	
10:15AM - 12:00PM	Part V	The Reconciliation: Putting the System Back Together
12:00PM - 1:00PM	LUNCH	

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NORTH AMERICAN Sustainable Refrigeration Council

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Session Descriptions

Day 1: The Marriage — How the System Works Together

- Day 1 shows how mechanical, electrical, and control systems work together as one partnership.

Trainer: Rusty Walker, NASRC
Topic: CO2 (R-744)

Part 1: Complete System Understanding

- An overview of refrigeration as a complete system rather than a set of separate components, and how each part depends on the others.

Part 2: Understanding the P&ID, Wiring and Control Diagrams

- Participants will learn how the P&ID, wiring, and control diagrams fit together to explain how the system operates.

Part 3: Hands-On Workshop: Building a Sequence of Operations

- Working in small groups, participants will use the P&ID, wiring, and control diagrams to write their own sequence of operations.

Day 2: The Divorce — When Things Fall Apart

- Day 2 looks at what happens when the system doesn't perform the way the diagrams say it should.

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Part 4: Irreconcilable Differences: Troubleshooting When the System Doesn't Match the Diagram

- Participants will learn to find and diagnose the gaps between how the system was designed to run and how it actually runs.

Part 5: The Reconciliation: Putting the System Back Together

- Participants will apply their troubleshooting findings to restore the system to normal operation.

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