

Refrigerated Dryers

Phase Final Test — page 1

Phase 5

BLOCK 9

Phase 5 — Block 9 Overview

Block 9 is the Phase 5 Final Assessment. Use the Block 9 Final Prep on the DRW platform to review and prepare for the seven assessment topics. **Once confident in your knowledge and hands-on skills, schedule time with a Senior or Master Technician experienced in refrigerated dryers.**

Use this syllabus (or the Block 9 Final on DRW) to guide your assessment. Once complete, return to DRW to document each session, including evaluator feedback and areas for improvement, and submit for Supervisor review. This feedback helps your Supervisor plan your continued development.

Phase 5 Final Checklist

The Phase 5 Final evaluates your knowledge and hands-on competency across the seven assessment topics below. Use this checklist with your Senior or Master Technician to complete each required task.

Check off each task as it is completed, then return to the DRW platform to document your assessment and submit for Supervisor review.

1 Refrigerant Recovery

Under the supervision of your Evaluator, complete the listed Assessment Tasks. Confirm completion on DRW.

- ☐ **Refrigerant Recovery:** Technician should perform a refrigerant recovery on a refrigerated dryer.
- ☐ **LOTO & Setup:** Technician should lock out/tag out unit & connect gauges, recovery pump, recovery tank & scale.
- ☐ **Refrigerant Handling:** Technician to explain whether different refrigerants can be mixed in recovery tank & why.
- ☐ **Recovery Procedure:** Technician to explain and demonstrate the proper valve sequence for recovering refrigerant.
- ☐ **Filter Drier:** Technician to explain when a filter drier should be used during refrigerant recovery.
- ☐ **Recovery Tank:** Technician should identify appropriate tank pressure limits and explain the risks of overfilling.
- ☐ **Tank Cooling:** Technician to explain methods for cooling the recovery tank or using an in-line condenser & why.
- ☐ **Documentation:** Technician to explain importance of documenting the amount of refrigerant recovered from unit.
- ☐ **Solenoid Magnet:** Technician to explain when a solenoid magnet may be required during recovery & why.

2 Nitrogen Use & Testing

Under the supervision of your Evaluator, complete the listed Assessment Tasks. Confirm completion on DRW.

- ☐ **Nitrogen Use:** Technician to explain how nitrogen is used for brazing and pressure testing.
- ☐ **Purge Setup:** Technician to set up nitrogen tank, regulators & hoses for purging/flowing.
- ☐ **Purging:** Technician to explain why nitrogen is purged/flowed during brazing..
- ☐ **Pressure Test Setup:** Technician to set up nitrogen tank, regulators & hoses for pressure testing.
- ☐ **Pressure Testing:** Technician to identify proper test pressure & explain the purpose of pressure testing.

Name: _____

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DRW

Phase 5 Final Checklist

3 Vacuum Pump & Evacuation

Under the supervision of your Evaluator, complete the listed Assessment Tasks. Confirm completion on DRW.

- ☐ **Vacuum Purpose:** Technician to explain why a vacuum is required before charging.
- ☐ **Vacuum Setup:** Technician to connect gauges, vacuum pump & vacuum gauge.
- ☐ **Vacuum Level:** Technician to identify the acceptable vacuum level before proceeding.
- ☐ **Vacuum Procedure:** Technician to demonstrate the proper procedure for pulling an adequate vacuum.

4 Refrigerant Charging

Under the supervision of your Evaluator, complete the listed Assessment Tasks. Confirm completion on DRW.

- ☐ **Charging Prep:** Technician to explain when to charge refrigerant & what must be done first.
- ☐ **Refrigerant Charge:** Technician to identify the correct refrigerant type & charge amount.
- ☐ **Charging Setup:** Technician to connect gauges & refrigerant tank and properly set up the scale.
- ☐ **Blended Refrigerants:** Technician to explain proper tank position when charging blended refrigerants.
- ☐ **High-Side Charging:** Technician to explain why refrigerant should be charged into the high-pressure side.
- ☐ **Tank Heater:** Technician to explain the benefit of using a blanket heater on the refrigerant tank.

5 Soldering

Under the supervision of your Evaluator, complete the listed Assessment Tasks. Confirm completion on DRW.

- ☐ **Soldering Use:** Technician to explain when soldering should be used & why.
- ☐ **Temperature:** Technician to identify the approximate copper temperature when soldering.
- ☐ **Solder Type:** Technician to identify the solder type used & percentage of silver.
- ☐ **Flame Setup:** Technician to demonstrate appropriate flame heat & size for soldering.
- ☐ **Soldering:** Technician to solder a copper-to-copper joint.
- ☐ **Preparation:** Technician to demonstrate proper sanding, deburring, cleaning & flux application.
- ☐ **Joint Quality:** Technician to demonstrate a safe technique and produce a joint free of holes & leaks.

Phase 5 Final Checklist

6 Brazing

Under the supervision of your Evaluator, complete the listed Assessment Tasks. Confirm completion on DRW.

- ☐ **Brazing Use:** Technician to explain when brazing should be used & why.
- ☐ **Temperature:** Technician to identify the approximate metal temperature when brazing.
- ☐ **Brazing Rod:** Technician to identify the material makeup of the brazing rod.
- ☐ **Preparation:** Technician to explain the prep work required before brazing.
- ☐ **Flame Setup:** Technician to demonstrate appropriate flame heat & size for brazing.
- ☐ **Brazing:** Technician to braze in a small filter drier.
- ☐ **Joint Quality:** Technician to demonstrate a safe technique and produce a joint free of holes & leaks.

7 Silver Soldering

Under the supervision of your Evaluator, complete the listed Assessment Tasks. Confirm completion on DRW.

- ☐ **Silver Soldering Use:** Technician to explain when silver soldering should be used & why.
- ☐ **Temperature:** Technician to identify the approximate metal temperature when silver soldering.
- ☐ **Flame Setup:** Technician to demonstrate appropriate flame heat & size for silver soldering.
- ☐ **Silver Soldering:** Technician to solder in a small filter fitting using silver solder.
- ☐ **Joint Quality:** Technician to demonstrate a safe technique and produce a joint free of holes & leaks.

Completion

Complete Phase 5

Real Work, Real Thinking — **Real Competence.**

Great job on completing Phase 5 and the Final Assessment.
Return to the DRW platform to document your completed assessment and any feedback provided by your evaluator. Submit your Final for Supervisor review to help guide your continued development.

Confirm completion on DRW:

- ☐ **Document completion of all 7 assessment topics and evaluator feedback.**
- ☐ **Enter your company email and submit your completed Phase 5 Final.**