



Notice of Change
New Product Implementation and Release Website Information

Trade/Occupation Name & Code: Refrigeration and Air Conditioning Systems Mechanic (313A)

Implementation Date of New Standard: December 4th, 2023

Implementation Plan:

Apprenticeship Training Standards:

- Apprentices who began their apprenticeships on the former 2004 Apprenticeship Training Standard can complete their program using the performance objectives in that standard.
- All apprentices with Training Agreements registered on or after December 4th, 2023 must be trained to the new Training Standard.

Standard Access

Apprenticeship Training Standards:

- The new Apprenticeship Training Standard Logbook will be available on the Skilled Trades Ontario website.

General Description of Changes

While the primary aspects of the organization for this new Apprenticeship Training Standard for Refrigeration and Air Conditioning continues to parallel the previous version in many ways, some restructuring and related content were completed for various reasons including but not limited to:

- To reflect a more logical and practical sequence of activities/tasks,
- To better harmonize with the current Red Seal Occupational Standard (RSOS) for Refrigeration and Air Conditioning Mechanic,
- To distinguish and group related skills into distinct and separate skill set groupings,
- To better parallel the structure and style of other Apprenticeship Training Standards in Ontario.

The Skill Sets in the new Apprenticeship Training Standard were also organized by primary actions (for example; plan and prepare, install, perform, clean and lubricate, maintain, service, commission), with the objects of those verbs in each skill set including all of the different systems worked on by Refrigeration and Air Conditioning Systems Mechanics under the grouped terminology “HVAC/R systems” (Instead of unique skill sets for different systems and sub-systems as in the previous standard). This approach substantially mirrors the structure and language in the updated RSOS as well as previous Red Seal National Occupational Analyses (NOAs) for this trade.

Finally, as indicated above, the terminology was updated to align with the terminology in the RSOS for Refrigeration and Air Conditioning Mechanic, with the use of “HVAC/R” as the terminology representing the collective group of systems worked on by a Refrigeration and Air Conditioning Systems Mechanic. Terminology and concepts were also updated to reflect technological change and innovation in the sector.

The New Training Standard Logbook is broken down into the following 10 Skill Sets:

- 9106 Protect Self, Others and the Environment
- 9107 Demonstrate Business Practices
- 9108 Use and Maintain Tools, Devices and Equipment
- 9109 Plan and Prepare for the Installation, Maintenance and Service of HVAC/R Systems, Components and Accessories
- 9110 Install HVAC/R Systems, Components and Accessories
- 9111 Perform Planned and Predictive Maintenance on HVAC/R Systems, Components and Accessories
- 9112 Clean and Lubricate Components of HVAC/R Systems, Equipment and Accessories
- 9113 Maintain HVAC/R Systems, Components and Accessories
- 9114 Service HVAC/R Systems, Components and Accessories
- 9115 Commission HVAC/R Systems, Components and Accessories

Additional information - Changes:

- Expansion of the occupational health and safety related skill set (9106 Protect Self, Others and the Environment) to include references to the environment.
- Expansion of the customer service-related skill set into the more encompassing business practices, including enhanced soft skills related to communication, conflict resolution and mentorship (9107 Demonstrate Business Practices)
- Addition of a distinct skill set covering existing content for the use and maintenance of tools, devices and equipment (9108 Use and Maintain Tools, Devices and Equipment)
- Addition of distinct skill set covering existing content for commissioning competencies (9115 Commission HVAC/R Systems, Components and Accessories)
- Split of maintenance related competencies into delineated separate skill sets for;
 - a) planned and predictive maintenance (9111 Perform Planned and Predictive Maintenance on HVAC/R Systems, Components and Accessories)
 - b) cleaning and lubricating (9112 Clean and Lubricate Components of HVAC/R Systems, Equipment and Accessories)
 - c) diagnostic and troubleshooting (9113 Maintain HVAC/R Systems, Components and Accessories)
- Merger of all service/repair related skills into single skill set (9114 Service HVAC/R Systems, Components and Accessories)