

Notice of Change

New Product Implementation and Release Website Information

Trade/Occupation Name & Code: Residential Air Conditioning Systems Mechanic (313D)

Implementation Date of New Standard: December 4th, 2023

Implementation Plan:

Apprenticeship Training Standards:

- Apprentices who began their apprenticeships on the former 2003 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

The update to the Apprenticeship Training Standard for Residential Air Conditioning Systems Mechanic (313D) was done in parallel with the update for the Apprenticeship Training Standard for the Red Seal trade of Refrigeration and Air Conditioning Systems Mechanic (313A). This was done to ensure alignment between the 2 related Ontario trades as well as to establish harmonization, when applicable for the provincial residential trade to the outcomes in the Red Seal Occupational Standard.

This harmonization and alignment of the new Residential Air Conditioning Systems Mechanic Apprenticeship Training Standard with both the Red Seal standard and the full 313A new Apprenticeship Training Standard now better supports a smoother transition between the full trade (313A) and residential trade (313D).

While the primary aspects of the Skill Set organization for this new Apprenticeship Training Standard Logbook generally parallels the previous version, some restructuring and resequencing was completed at the Skill Set level for the following reasons:

- to reflect a more logical and practical sequence of activities/tasks (e.g., Demonstrate Business Practices),
- to substantially align with the new Apprenticeship Training Standard for the related trade of Refrigeration and Air Conditioning Systems Mechanic (313A) (where applicable) which has also been harmonized with the current Red Seal Occupational Standard (RSOS) for Refrigeration and Air Conditioning Mechanic,
- to better parallel the structure and style of other Apprenticeship Training Standards in Ontario (e.g., distinct skill set grouping for tools and equipment related skills).

Furthermore, the Skill Sets in the new Apprenticeship Training Standard are organized by primary actions (for example; plan and prepare, install, maintain, service, commission), with the objects of those verbs in each skill set including all of the different systems worked on by Residential Air Conditioning Systems Mechanics under the grouped terminology “HVAC systems” (instead of residential air conditioning and heat pumps). This mirrors the change to the terminology in the parallel new Apprenticeship Training Standard for Refrigeration and Air Conditioning Systems Mechanic as well as the structure of the updated RSOS as well as previous Red Seal National Occupational Analyses (NOAs) for the Red Seal trade. The use of the terminology “HVAC” was adapted for the specific scope of work for Residential Air Conditioning Systems Mechanic (removal of the “R” for the provincial sub-trade) to represent the collective group of systems worked on by a Residential Air Conditioning Systems Mechanics similarly as the “HVAC/R” was used to represent the collective group of systems worked on by the Red Seal trade. The updated skill set objects now more accurately depict the full scope of practice for 313D, which includes combined heating and cooling as well as cooling units. The titles, of the skill sets, now focus on the entirety of the system being addressed.

The New Apprenticeship Training Standard Logbook is broken down into the following 8 Skill Sets:

- 9117 Protect self, others and the environment
- 9118 Demonstrate business practices
- 9119 Use and Maintain Tools, Devices and Equipment
- 9120 Plan and prepare for the installation, maintenance and service of residential HVAC systems, components and accessories
- 9121 Install residential HVAC systems, components and accessories
- 9122 Maintain residential HVAC systems, components and accessories
- 9123 Service residential HVAC systems, components and accessories
- 9124 Commission residential HVAC systems, components and accessories

Additional information – Changes:

- Expansion of the occupational health and safety related skill set (9117 Protect Self, Others and the Environment) to include references to the environment.
- Addition of some unique residentially focused skills
- 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 (9118 Demonstrate Business Practices)
- Addition of a distinct skill set covering existing content for the use and maintenance of tools, devices and equipment (9119 Use and Maintain Tools, Devices and Equipment)
- Merger of all maintenance related skills into a single skill set (9122 Maintain residential HVAC systems, components and accessories)
- Merger of all service/repair related skills into single skill set (9123 Service HVAC Systems, Components and Accessories)