

Determining Demand for Skilled Trades and Apprenticeship Training in Nova Scotia

2018 Industry Meeting and Awards Breakfast
The Business Case for Apprenticeship Training in Nova Scotia

November 20th, 2018

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Prism Economics and Analysis





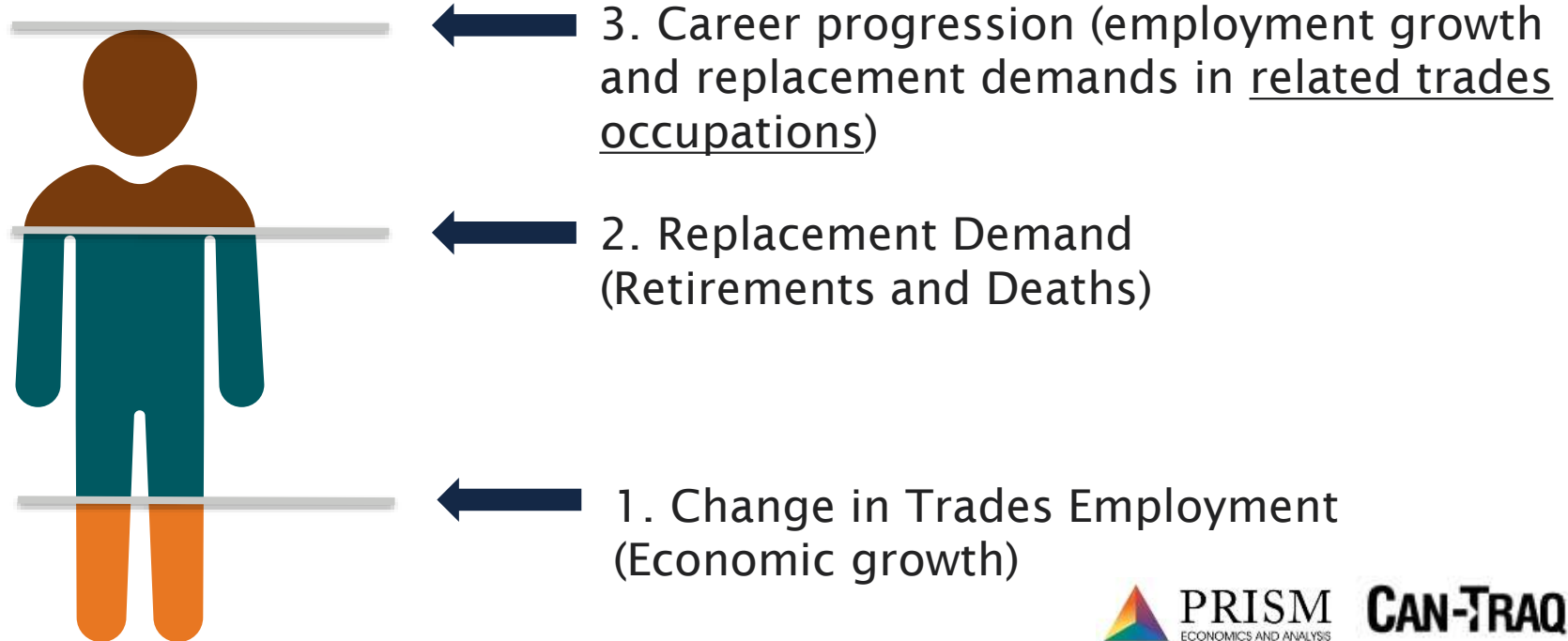
Demand for Skilled Trades

1. How to determine demand for skilled trades?
2. What is the demand for skilled trades?
3. What is the role of apprenticeship and certification?
 - How many apprentices, in what trades, when?

Determinants of Demand for Skilled Trades



Demand



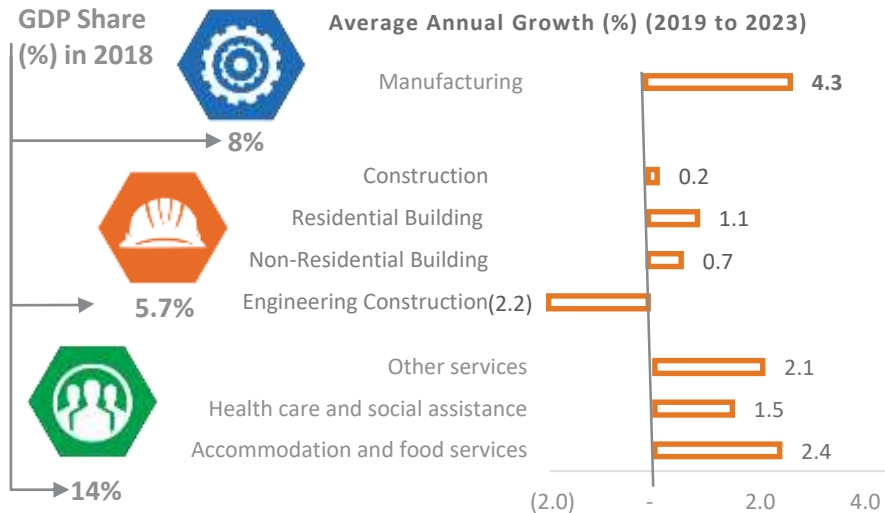
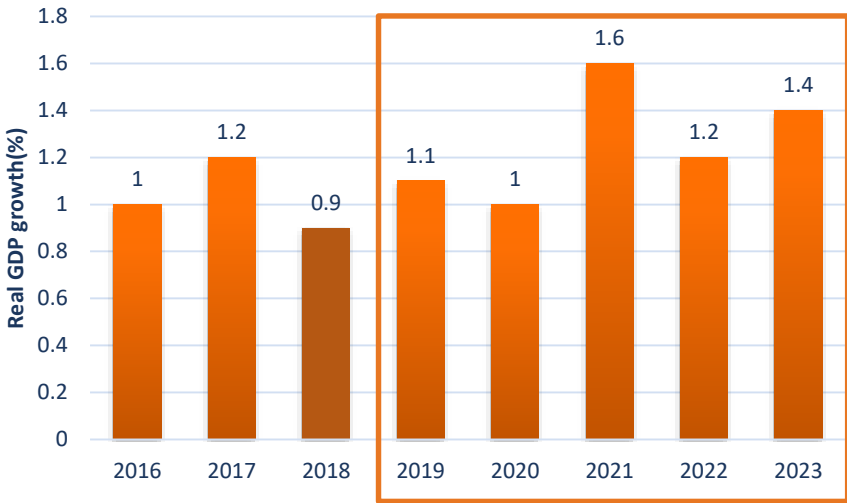


Economic Growth



Modest growth, driven by exports, manufacturing, tourism.

Real GDP Growth, Nova Scotia, 2016-2023



Source: Statistics Canada, C4SE 2018-2028 Outlook

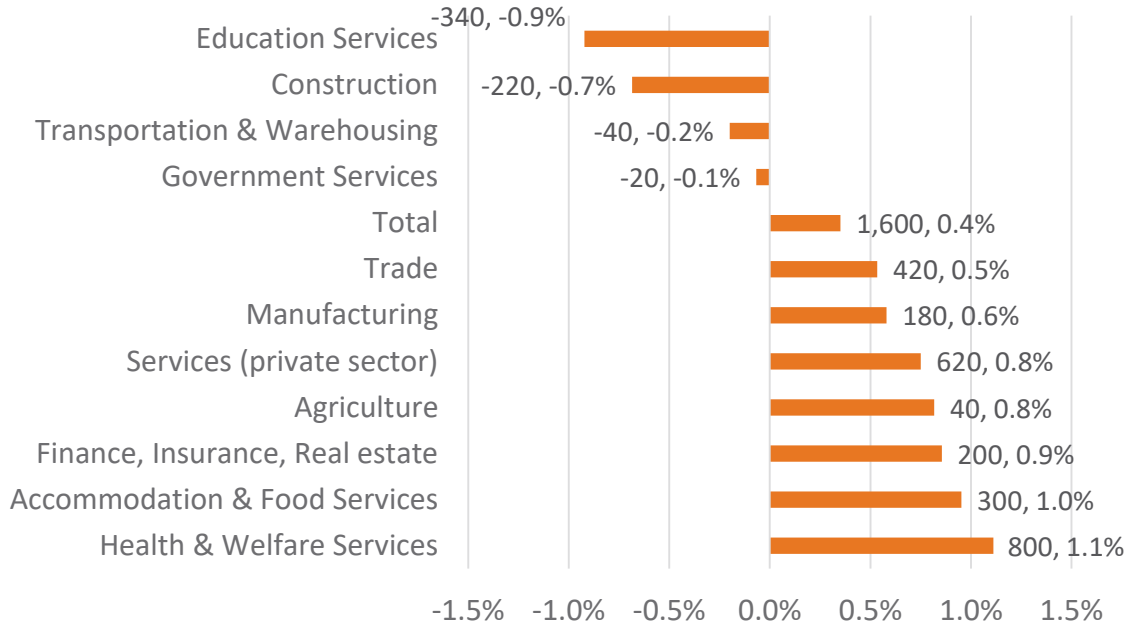


Employment

Largest employment gains expected in Accommodation and Food, Service Sector, Manufacturing.



Average Annual Industry Employment Change 2019 to 2023, (#), (%)



- Nova Scotia employment rises by **8,000** over 5 years..
- **Manufacturing +900**
- **Services +3,100**
- **Construction -1,100**
- **Accommodation & Food +1,500**



Population and Demographic Trends



0.11%

POPULATION GROWTH



8,500

BIRTH



10,500

DEATH



3,100

NET IN-MIGRATION



Source: Statistics Canada, BuildForce Canada (2018-2028)

10 – Year Annual Average 2019 -2028

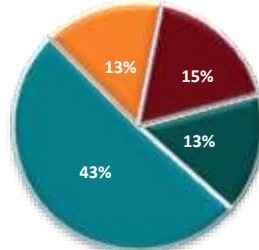
Age Demographics



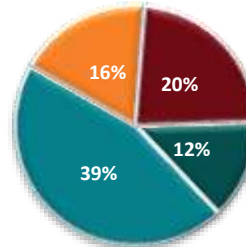
Nova Scotia



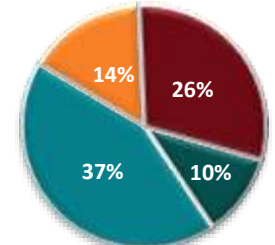
2008



2018



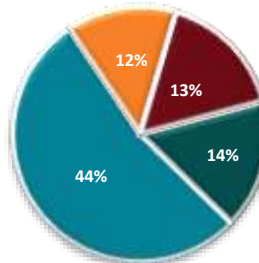
2028



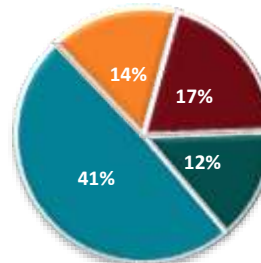
Canada -
Overall



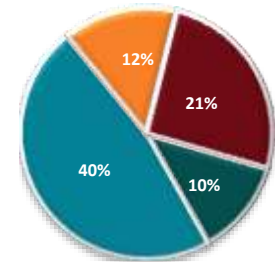
2008



2018



2028

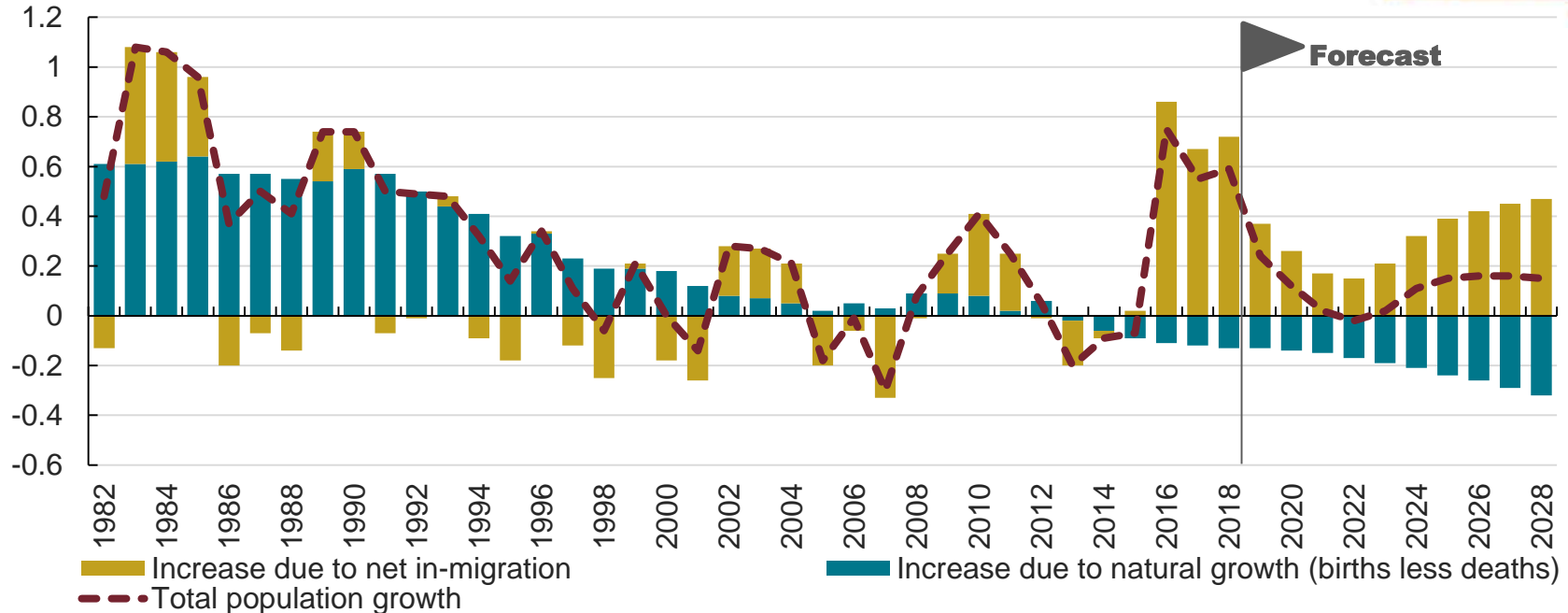


Population and Demographic Trends

Immigration is the sole source of population growth.



Components of population growth

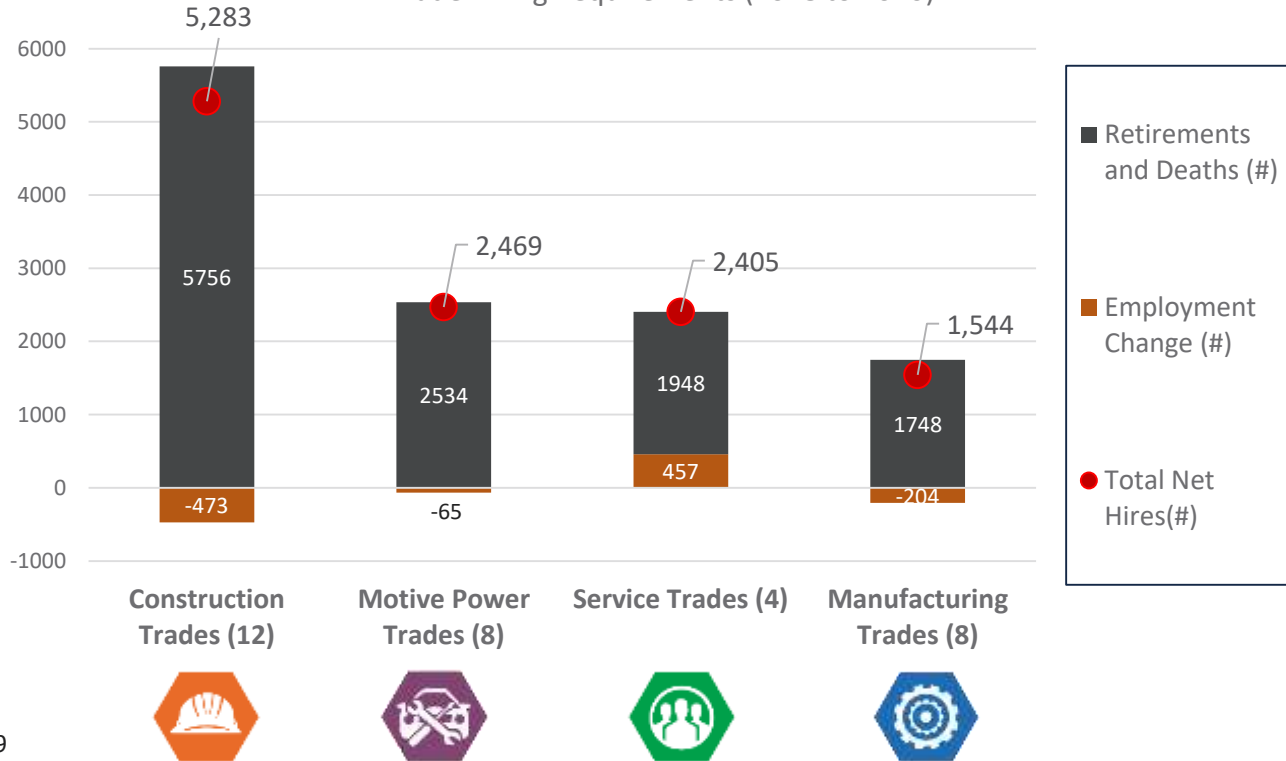


Source: Statistics Canada, BuildForce Canada (2019-2028)

Trade Hiring Requirements



Trade Hiring Requirements (2018 to 2026)



- Employment requirements are little changes for 32 skilled trades (~300)
- **12,000** workers expected to retire over the decade.
- Hiring requirements of for skilled trades **11,700**

Tracking Qualification Requirements Across Occupations



Canadian System For Tracking Apprenticeship Qualifications (CANTRAQ) was developed by Prism Economics and Analysis to track demand requirements and supply of trade certifications.



Carpenter



Home Builder



Retail/Wholesale Sales



Contractor/Supervisor



Inspector



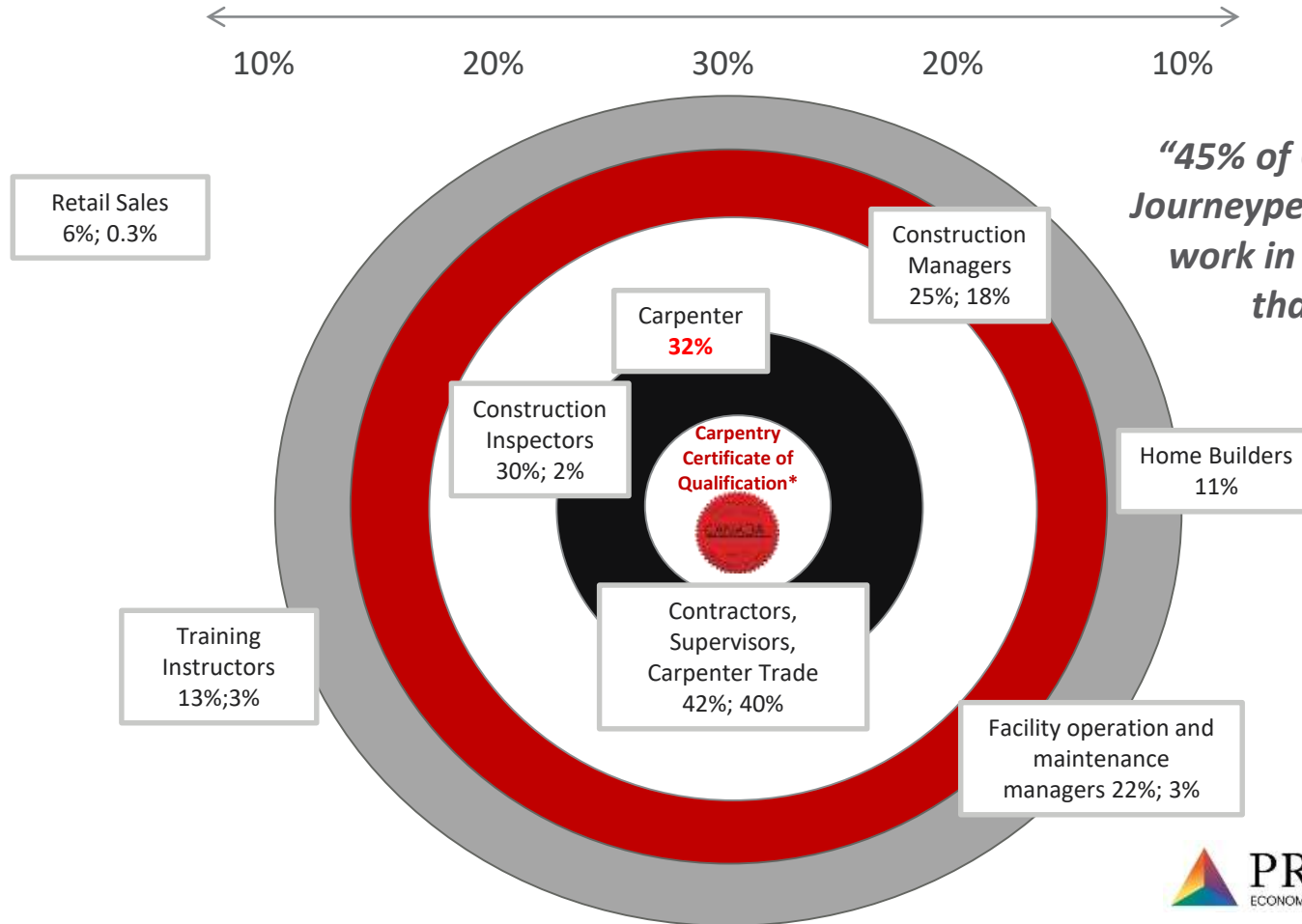
Vocational Trainer



Construction Manager

- Transforms occupational hiring requirements to demand and supply of trade certifications (CofQs).
- Tracks demands and rates certification in the
 - “principle” apprenticeable trade
 - “related” trades and occupations.

Share (%) of Carpenter CofQ Holders Across Occupations – Nova Scotia





Ingredients for Targeting Nova Scotia's Appetite for Skilled Trades



What is the role of apprenticeship and certification?

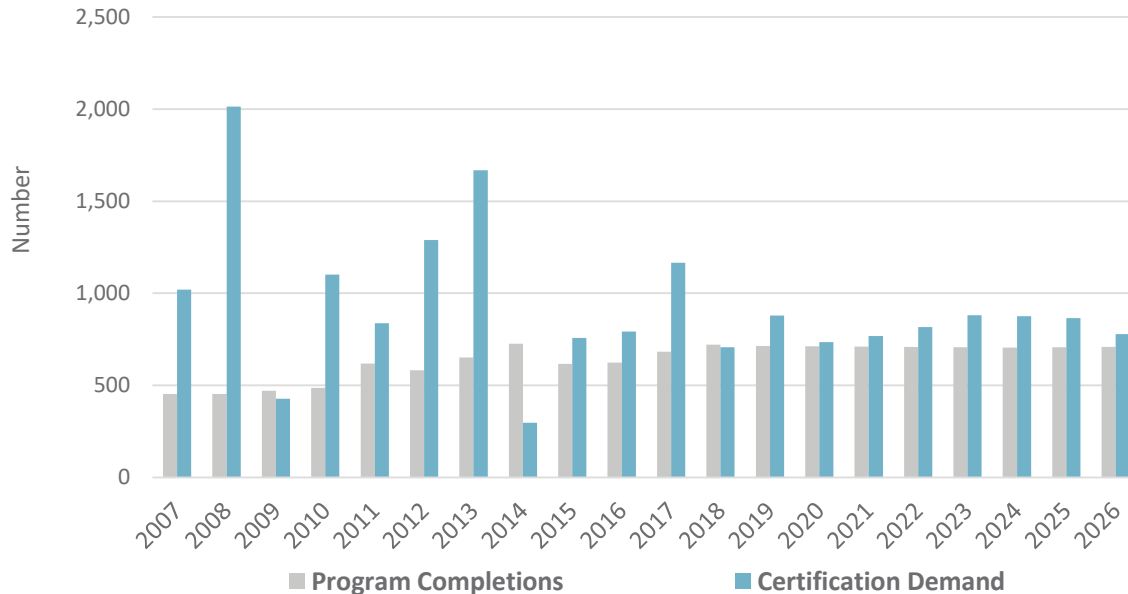


Demand for Skilled Trades Apprenticeship and Certification



- How many apprentices, in what trades, when?

Apprenticeship Completions and Certification Requirements, 2007 to 2026, Nova Scotia



- Attract 17,000 new apprentice registrants in the 29 trades by 2026
- Train and certify 7,200 journey persons.
- The target exceeds the 6,000 completions over the last decade.

Demand for Skilled Trades Apprenticeship and Certification

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- Train and certify 7,200 journey persons.



Skill Deepening (completions exceed certification demands)	Skill Balance (certification demands match completions)	Skill Weakening (certification demands exceed completions)
Boilermaker	Automotive Service Technician	Bricklayer
Gasfitter	Construction Electrician	Carpenter
Ironworker (Structural/Ornamental)	Oil Burner Mechanic	Cook
Metal Fabricator (Fitter)	Plumber	Heavy Duty Equipment Technician
Powerline Technician	Sheet Metal Worker	Industrial Electrician
Refrigeration and Air Conditioning Mechanic	Truck and Transport Mechanic	Industrial Mechanic (Millwright)
Roofer	Welder	Insulator (Heat and Frost)
Service Station Mechanic		Ironworker (Reinforcing)
Sprinkler System Installer		Machinist
Steamfitter/Pipefitter		Mobile Crane Operator
		Motor Vehicle Body Repairer (Metal and Paint)
		Power Engineer/Stationary Engineer -All Classes

Contact:

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Thank-you!