

CIP to NOC Report Methodology

BC STATS

March 2025



BCStats

AUTHORS

BC Stats

CONTACT

[BC Stats - Jira Service Management](#)

PUBLISH DATE

March 2025

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Background

The BC Stats CIP (Classification of Instructional Programs) to NOC (National Occupational Classification) report (the report) is a dataset designed to track student transitions from post-secondary institution training into the labour market. It is intended to provide information for post-secondary institutions to support program development and program review, and for individuals to support their career pathway planning.

The report highlights those working in the jobs that are connected to their major field of study, and which fields of study directly lead into related occupations two years after graduation. This information can assist future education and labour market tracking and planning to ensure that the right skills are meeting the current labour market demand. This data is intended to be complimentary information to BC Stats Post Secondary Supply Model projections¹ and has been developed to be reported on annually by BC Stats.

Data Sources

The report utilizes data from three sources:

- The B.C. Student Outcomes survey data,
- the CIP classification structure published by Statistics Canada
- the NOC classification structure published by Statistics Canada

The BC Student Outcomes Program collects information from tens of thousands of former British Columbia post-secondary students annually. Through the BC Student Outcomes Program surveys former students evaluate their education and are asked about their subsequent employment and further education. BC Student Outcomes Program surveys are funded by the Ministry of Post-Secondary Education and Future Skills, SkilledTradesBC (formerly the Industry Training Authority), and B.C.'s public post-secondary institutions².

¹ For more information see: [Labour Market Statistics - Province of British Columbia](#)

² For more information see: [Welcome - BC Student Outcomes Website](#)

The Classification of Instructional Programs (CIP) Canada is a classification of instructional programs used to classify post-secondary educational programs according to field of study. It is Statistics Canada's official standard for the organizing, collection, processing, dissemination, and analysis of field of study statistics in its education statistics programs³.

The National Occupational Classification (NOC) Canada is a classification of occupations designed primarily for use in statistical programs. It is also used for employment-related program administration and to compile, analyze and communicate information about occupations, such as labour market information. Occupational information is of critical importance for the provision of labour market and career intelligence, occupational forecasting, labour supply and demand analysis, employment equity, job training and skills development, and numerous other programs and services. It provides a standardized framework for organizing the world of work, for pay or profit, in a manageable, understandable and coherent system⁴.

Methodology

The report was developed in consultation with the B.C. Ministry of Post-Secondary Education and Future Skills, and staff from self selecting post-secondary institutes. The report uses data from the B.C. Student Outcomes surveys for the following public post-secondary programs within B.C.'s post-secondary institutions:

- Baccalaureate Programs (BGS)
- Diploma, Associate Degree, and Certificate Programs (DAC)
- Trades Foundation and Trades-Related Vocational Training in B.C. (TFTRV)
- Apprenticeship Programs (APP)

The CIP to NOC results are reported from all individuals who completed the surveys and have gone on to employment in the workforce, or have continued further studies (for Baccalaureate Programs). Across the 2023 BC Student

³ For more information see: [Introduction to the Classification of Instructional Programs \(CIP\) Canada 2021 Version 1.0](#)

⁴ See: [Introduction to the National Occupational Classification \(NOC\) 2021 Version 1.0](#)

Outcomes Program survey cycle this report has incorporated over 20,000 responses from students transitioning to the labour market or further studies.

The report is structured to summarize the CIP to NOC student transition by six-digit CIP category to four-digit NOC category. As an example, if a student took the Registered nursing program (CIP 513801), a likely occupation that they would be employed in is Nursing and allied health professionals (NOC 7220), when responding to the BC student Outcomes Program survey, two years after graduating.

Although there is a large sample of respondents, when separating and grouping them by hundreds of CIP and NOC categories, the respondent counts become small very fast. These findings summarize the labour market transition by post secondary students early in their careers. Results can therefore vary year to year as there are many factors at play that effect these transitions.

Due to the requirement to keep respondents to the survey anonymous, CIP to NOC combinations that have less than 5 respondents were not included in the report. Although it was intended that each corresponding CIP to NOC combination would aggregate to 100% of the responses for each CIP in the report's PCT column, for most CIPs this is not possible due to the less than 5 cell suppression rule that has been applied.

For example, Table 1 below shows the results from the 2023 report for CIP 10699, "Applied horticulture/ horticultural business services, other". In total after the cell suppression rule has been applied, 2 occupations (NOCs) were reported as employing people educated in this program (CIP). A total of 12 of 17 respondents (71%) employed in these 2 NOCs were therefore attributed back to CIP 10699. The remaining 29% of respondents were employed in NOCs with less than 5 of the respondents employed and are therefore not included in the report.

Table 1: Example CIP 10699

PRGRM	PRGM_CREDENTIAL	CIP	CIP_NAME	NOC4	LNOC4_DESCRIP	RESPONDENTS	TOT_RESPOND_CIP_CRED	PCT
APP	APPR	10699	Applied horticulture/ horticultural business services, other	2211	Technical occupations in life sciences	7	17	0.4118
APP	APPR	10699	Applied horticulture/ horticultural business services, other	7420	Transport equipment operators, utility maintenance and related maintenance workers	5	17	0.2941

Data Definitions

Table 2 below describes the report column titles and select credential grouping acronyms:

Table 2 – Data Definitions

Name	Attribute	Description
PRGRM	Column heading	The acronym of the specific BC Student Outcomes Program survey group
PRGM_CREDENTIAL	Column heading	The name of the post-secondary program credential
CIP	Column heading	the 6-digit CIP code (CIP 2021)
CIP_NAME	Column heading	The Classification of Instructional Programs name at the 6 digit level
NOC4	Column heading	the 4-digit NOC code (NOC 2021)
LNOC4_DESCRIPTION	Column heading	The National Occupational Classification (NOC 2021) name at the 4-digit level
RESPONDENTS	Column heading	The number of respondents that correspond to the particular CIP to NOC combination
TOT_RESPOND_CIP_CRED	Column heading	The total respondents for that particular CIP
PCT	Column heading	The percentage of respondents that correspond with the particular CIP to NOC and credential combination

UT	PRGM_CREDENTIAL	University Transfer
DIPL	PRGM_CREDENTIAL	Diploma
ADIP	PRGM_CREDENTIAL	Advanced Diploma
CERT	PRGM_CREDENTIAL	Certificate
ADGR	PRGM_CREDENTIAL	Associate Degree
BACH	PRGM_CREDENTIAL	Baccalaureate Degree
APPR	PRGM_CREDENTIAL	Apprenticeship
PDDP	PRGM_CREDENTIAL	Post-Degree Diploma
PDCT	PRGM_CREDENTIAL	Post-Degree Certificate



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