

# Grad Planner

## 2015/16

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Graduation Program

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# Grad Planner

## Graduation Program

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# Welcome to the Graduation Program!

You're about to start a new chapter in your education – and you have an opportunity to shape your future. You're going to make a lot of choices over your graduation program years. For the most part, you'll get to choose courses that interest you. You'll have choices about where and how you learn. The choices you make will help you realize your potential.

The Graduation Program provides an opportunity for you to discover what you want to do in the future. This document helps you get started. It explains what's required and where you have choices. It also covers exams, scholarships, funding, and links to web sites with helpful information. It's your guide to three of the most important years of your education.

Use these years to learn, discover, grow, explore and try new things. And choose the path that best reflects your interests and your dreams.

**Your future starts here. Only you can make it great!**



**You're going to make a lot of choices over the next three years.**

# 1 What You Need to Graduate

## At a Glance

Starting this year, you have a lot more choice about what you learn. But, in order to graduate with a Dogwood Diploma, every student in the Graduation Program has to pass certain basic courses, such as English, math and science.

The table provides an overview of what you need to graduate:

- 48 credits from required courses
- 28 credits from electives
- 4 credits from your Graduation Transitions Program

Preparing now will help ensure you get the credits you need to achieve your goals. Graduation requirements are introduced in Planning 10. For more help, talk to your teacher or school counsellor.

Special rules apply to Programme Francophone and French Immersion students pursuing both English and French Dogwood Diplomas (“Dual Dogwoods”). Speak to your counsellor for information.

- More information about required courses can be found on page 5.
- More information about elective credits can be found on page 7.
- More information about Graduation Transitions can be found on page 7.

REQUIRED COURSES	
SUBJECT AREA	Minimum Credits
Planning 10	4
a Language Arts 10*	4
a Language Arts 11*	4
a Language Arts 12*	4
a Mathematics 10*	4
a Mathematics 11 or 12*	4
a Fine Arts and/or Applied Skills 10, 11 or 12*	4
a Social Studies 10	4
a Social Studies 11 or 12*	4
a Science 10	4
a Science 11 or 12*	4
Physical Education 10	4
<b>TOTAL</b>	<b>48 credits</b>
ELECTIVE CREDITS	
Students must earn at least 28 elective credits from Grade 10-12 courses.	<b>Minimum Credits</b>
Additional Grade 10-12 credits.	<b>28 credits</b>
GRADUATION TRANSITIONS	
Students must earn 4 credits for Graduation Transitions.	<b>4 credits</b>
<b>OVERALL TOTAL</b>	<b>80 credits**</b>
* See pages 5-7 for eligible courses.	
** Of the 80 credits for graduation, at least 16 must be at the Grade 12 level, including a Grade 12 Language Arts course. Others may be required courses or elective credits.	

# Required Courses

- Choice is an important part of the Graduation Program. You have lots of options, even for many required courses.

The following section describes the courses required for graduation. You have some choice within these requirements. For example, there are different math, science, and language arts options. Check which options are available at your school and, if applicable, which ones you need for entry to a post-secondary institution. Certain courses may be necessary for college or university entrance.

## Planning 10

This course helps you build the skills you need to make informed choices about your future. The skills you develop in Planning 10 will help you well beyond graduation, as you move forward with your adult life. You'll do research, set goals and start to make informed decisions about health topics and issues, education and career options, and ways to finance those options.

In Planning 10, you plan for your Graduation Program. You also start collecting evidence of your accomplishments for your Graduation Transitions presentation. (See page 7 for information concerning Graduation Transitions.) Your school will have guidelines about the process and type of demonstration that will meet the expectations for the Graduation Transitions presentation.

## Language Arts 10, 11 and 12

These courses are all about providing you with opportunities in the areas of speaking, listening, reading, viewing, writing and representing. Gathering, organizing and presenting information effectively are also important communication skills.

Language Arts 10, 11 and 12 are required for graduation. In Grade 10, your choices include English 10, English 10 First Peoples, or Français langue première 10. In Grade 11, common choices are English 11, English 11 First Peoples, Français langue première 11, or Communications 11. In Grade 12, you can choose from English 12, Français langue première 12, English 12 First Peoples, Communications 12, and others that might be offered at your school. (You can take more than one course at each Grade level.)

Students enrolled in Programme Francophone must successfully complete the following Language Arts courses to receive both a French Dogwood Diploma and a Dogwood Diploma:

- Français langue première 10 and English Language Arts 10;
- Français langue première 11 and English Language Arts 11;
- Français langue première 12 and English Language Arts 12.

## Mathematics 10 and 11 or 12

Mathematics is about more than numbers. It's also about space and shape, statistics, reasoning, solving problems and using logic. To graduate, everyone must complete a Grade 10 mathematics course plus a second math course at the Grade 11 or 12 level. You might need more math courses if you plan to continue school beyond Grade 12. Check with post-secondary institutions to determine which math courses they require for admission.

The following three Mathematics pathways are available (note that the Foundations of Mathematics pathway and the Pre-Calculus pathway are combined into a single Foundations of Mathematics and Pre-Calculus pathway at the Grade 10 level):

**Apprenticeship and Workplace Mathematics:** These courses provide the mathematics identified as important for entry into the majority of trades, and for direct entry into the workforce.

**Foundations of Mathematics:** These courses provide the mathematics identified as important for post-secondary studies in programs that do not require the study of theoretical calculus, such as arts and humanities.

**Pre-Calculus:** These courses provide the mathematics identified as important for post-secondary studies in programs that require the study of theoretical calculus, such as science and engineering.

In order to determine which courses are appropriate for you and your future, talk to your teacher or school counsellor for more detailed information.

## Fine Arts and Applied Skills 10, 11, 12

These courses help you understand and appreciate applied learning and creative works. Both areas emphasize hands-on learning.

- Fine Arts include Dance, Drama, Music and Visual Arts.
- Applied Skills include Business Education, Home Economics, Information Technology, Technology Education, and Work Experience (including Secondary School Apprenticeship).

• Check with your school to see which options are available.

To graduate, you need four credits in either Fine Arts, Applied Skills or a combination of both.

## Social Studies 10 and 11 or 12

These courses help you understand the world and your place in it. You learn about events, issues and themes from the past and present. You also develop skills that help you think critically and become a responsible citizen.

To graduate, you must complete a Grade 10 Social Studies course. You must also complete a Social Studies 11 or 12 course, such as Social Studies 11, Civic Studies 11 or BC First Nations Studies 12.

## Science 10 and 11 or 12

These courses help you understand the natural world. You'll develop skills related to observation, measurement, problem-solving and critical thinking.

To graduate, you must complete a Grade 10 science course. You must also complete a second science course at the Grade 11 or 12 level. Some options are agriculture, applications of physics, biology, chemistry, earth science, forestry, geology, and science and technology. Check with your school to see what options are available.

## Physical Education 10

This course will help you attain and maintain an active, healthy lifestyle.

To graduate, you must complete Physical Education 10, even if you are actively involved in sports or physical activities outside of school. You must also meet the Daily Physical Activity standard for Graduation Transitions during your graduation years. See below for more information about Graduation Transitions.

# Elective Credits

To graduate, you need 28 elective credits from courses numbered 10, 11 or 12. That's in addition to the credits you need from required courses and your Graduation Transitions Program. When you take two required courses in the same subject area, one will count as an elective.

• Think about your future when you choose your electives. You may need certain courses to achieve your goals.

Choose elective credits based on your interests, abilities, plans and courses available to you. If you plan to continue school beyond Grade 12, you may need certain courses to enter the program you want. (You'll learn more about post-secondary entry requirements in Planning 10.)

To find out what elective courses are available in your school or district, talk to your school counsellor. Check out the "Getting Credits" section of this document to learn about other ways of earning graduation credits.

# Graduation Transitions

Four of the 80 credits you need for graduation come from Graduation Transitions. Graduation Transitions encourages you to:

- take ownership of your health and learning
- examine and demonstrate connections between your learning and your future
- create a plan for your growth and development as a skilled, healthy, knowledgeable, participating citizen
- exhibit attributes of a model B.C. graduate



Graduation Transitions expects you to reflect on your knowledge and abilities, and to plan for life after graduation by collecting evidence of your achievements in the following required areas:

### Personal Health

You will demonstrate the attitudes, knowledge and positive habits needed to be a healthy individual, responsible for your own physical and emotional well-being, by:

- engaging in and recording at least 150 minutes per week of moderate to vigorous physical activity in each of Grades 10-12, and
- developing a long-term personal healthy living plan appropriate to your lifestyle.

### Community Connections

You will demonstrate the skills required to work effectively and safely with others and to succeed as an individual and collaborative worker, by:

- participating in at least 30 hours of work experience and/or community service, and
- describing the duties performed, the connections between the experience and employability and life skills, and the benefits to yourself and the community.

### Career and Life

You will demonstrate the confidence and competence needed to be a self-directed individual, by:

- developing a comprehensive plan that indicates you are prepared to successfully transition from secondary school, and
- presenting selected components of your transition plan to members of the school and/or community.

• You'll learn about Graduation Transitions in Planning 10.

More information about Graduation Transitions is available at:  
[www.bced.gov.bc.ca/graduation/grad\\_certificate.htm](http://www.bced.gov.bc.ca/graduation/grad_certificate.htm)



## 2 Getting Credits Toward Graduation

### In-School Course Credits

• Studying for short periods of time over several days or weeks is more conducive to retaining information than a single period of concentrated study (“cramming”).

You may earn most of your credits toward graduation the traditional way – by successfully completing school-based courses. But there are other ways of earning credits, and some of these might work for you. Read through the following list of other options. For more information, talk to your school counsellor or go to: [www.bced.gov.bc.ca/policy/policies/earning\\_credit\\_through.htm](http://www.bced.gov.bc.ca/policy/policies/earning_credit_through.htm)

Special rules concerning options for satisfying graduation requirements apply to most international students. If you are an international student, you may want to ask your school counsellor if the rules apply to you.

#### Advanced Placement (AP) and International Baccalaureate (IB) Courses

These courses may appeal to students whose plans include university. There are different options, and choices vary from school to school.

#### Distributed Learning

Is there a course you’d like to take, but it’s not offered in your school or it doesn’t fit in your timetable? You can choose from thousands of courses offered by public and independent distributed learning schools in B.C.

Distributed learning occurs primarily at a distance from the teacher. It can be print-based, online, or a mix of both, and may include a face-to-face component. You have the flexibility to learn anytime, anywhere, and at any pace, and most B.C. residents do not pay tuition fees.

For more information visit [www.bced.gov.bc.ca/dist\\_learning/](http://www.bced.gov.bc.ca/dist_learning/) or the LearnNowBC portal ([www.learnnowbc.ca](http://www.learnnowbc.ca)). LearnNowBC services include a province-wide course finder, a trades program finder, free tutoring services for many courses, and academic advising.

• When studying for hours at a time, take a break every hour or so to clear your mind and allow what you’ve learned to sink in.

### Other Options

#### Equivalency (documented prior learning)

Have you completed a course outside a B.C. school? Did you earn a certificate that shows substantive learning outside of school? If so, you might qualify for credit for an equivalent course in the B.C. school system. If you can document your learning (with a report card or transcript, for example) you can ask the school for an equivalency review.

The review will determine whether you’re entitled to credits and, if so, how many.

If you went to a school where the classes were taught in a language other than English, you might qualify for credits for equivalent B.C. language courses. To learn more about equivalency, talk to your school counsellor.

## External Credentials

- Writing down what you've learned in your own words helps to ensure that you understand and can recall the material.

If you demonstrate a high level of achievement or performance in areas outside school, you might earn credits for these learning activities. Examples include: computer certification courses, Red Cross, Cadets, scuba diving, Duke of Edinburgh's Award, some driver education courses, involvement in provincial or national sports teams, and some music and dance courses. Some external credentials count as "required course" credits, while most count as elective credits.

More information about external credentials can be found at:  
[www.bced.gov.bc.ca/graduation/ext\\_credentials/](http://www.bced.gov.bc.ca/graduation/ext_credentials/)

## Course Challenge

- When you have several different things to study, vary the material studied every so often in order to maintain interest and aid concentration.

Some students acquire skills or knowledge that is not documented. In other words, they have no paper (certificate, transcript, etc.) that verifies they have the skills or knowledge. If you're in that position, you may be able to earn credits by challenging a course.

Challenge is a process that assesses your knowledge and skills to determine whether you've met the learning outcomes for a similar course. If you have, you might get credit for the course without having to take it.

Each school authority has its own challenge process. Students in public schools cannot be charged a fee for challenging a course.

## Independent Directed Studies (IDS)

If you are interested in a specific subject area, you might want to think about Independent Directed Studies. IDS allows you to shape and follow your own course or courses, with a teacher's approval and supervision. IDS courses count as elective credits toward graduation.

- IDS is an opportunity to develop your own course of study.

To qualify for IDS, you need the approval of the school principal to expand on one or more learning outcomes from any Ministry or Board/Authority Authorized course (the school counsellor can help explain this). Then you'll need to find a teacher to supervise your studies before you initiate your own course. You'll work independently. The teacher will support you and assess your performance.

## Post-Secondary Courses

Many courses completed at B.C. post-secondary institutions count toward graduation. The post-secondary transcript is proof of your achievements. You will need to provide this proof to your school.

In most cases, you can earn dual credit. That means you get credit toward your graduation and also toward a post-secondary credential. To get dual credit, you have to take either:

- a post-secondary course from an institution in the British Columbia Transfer System (see [www.bccat.bc.ca](http://www.bccat.bc.ca) for a list of institutions) or
- a post-secondary course offered in French in conjunction with Educacentre ([www.educacentre.com](http://www.educacentre.com)).

Post-secondary courses count as elective credits at the Grade 12 level.

# Career Programs

- Some career programs include wages so you can earn while you learn.

Many schools offer specialized programs that help you explore careers or gain work experience. Some of these programs also help you develop workplace skills or credentials.

Check to see if your school offers any of the following:

## Industry Training Programs

These programs let you train for work while you're in secondary school, earn graduation credits, and possibly earn some money at the same time. Industry training programs include SSA and ACE IT.

**Secondary School Apprenticeship (SSA) Program:** You can earn up to 16 graduation credits and qualify for a \$1000 SSA award.

**Accelerated Credit Enrolment in Industry Training (ACE IT):** Credits you earn through ACE IT are equivalent to the first level of apprenticeship technical training. They count towards graduation.

## Career Preparation Programs

These help prepare you for the workplace or for further education and training in a specific career pathway.

The programs include coursework and work experience placements (see below) approved by your school. Some career preparation programs also provide entry-level skills for specific job opportunities.

**Elective Work Experience courses:** These courses provide you with an opportunity to connect what you learn in school with what's required in the world of work, while also learning about an occupation or career.

## Cooperative Education Programs

These programs give you hands-on experience in different careers. They combine career exploration and skill enhancement with work experience.

# Top Jobs in Demand

- **WorkBC** is the provincial government's access point to help students enter the world of work in B.C. On that website is a **Blueprint Builder** that helps you create a customized skills training plan.

The B.C. Government produces a Labour Market Outlook of labour market demand and supply trends. The Outlook is available on the WorkBC website at [www.workbc.ca](http://www.workbc.ca). Included in the Outlook is a projection of top jobs in demand. That projection is reproduced in the appendix of this document.

## 3 Putting It All Together

• Focus Areas can help you plan for life after Grade 12.

### Planning Your Future With Focus Areas

Focus Areas, which you learn about in Planning 10, help you consider a broad range of education and career choices. They also help you choose an area of interest to pursue during the Graduation Program. Think about your Focus Area(s) when you select courses for Grades 11 and 12. Do the courses support your goals?

Based on your own interests and aptitudes, you may concentrate your studies in one or more of the following Focus Areas:

- Business and Applied Business
- Fine Arts, Design, and Media
- Fitness and Recreation
- Health and Human Services
- Liberal Arts and Humanities
- Science and Applied Science
- Tourism, Hospitality, and Foods
- Trades and Technology

### Planning for Life Beyond Grade 12

Graduating from secondary school is an important step toward a successful future. Grade 12 completion is the minimum requirement for entry to most jobs today. If you also have post-secondary education or training, chances are you'll have more job choices. B.C. has a wide range of post-secondary options. You'll learn more about these in Planning 10.

More information about B.C. post-secondary institutions and the programs they offer can be found at: [www.educationplanner.ca](http://www.educationplanner.ca).

Graduating students who apply for post-secondary admission can have the Ministry of Education send **free** copies of their transcripts to post-secondary institutions (PSIs). Before mid-July of your graduating year, please make your PSI Selections on the Student Secure Web at [www.bced.gov.bc.ca/exams/tsw/tsw/student/](http://www.bced.gov.bc.ca/exams/tsw/tsw/student/). Transcripts are sent automatically to your PSI Selections at the end of July.

For more information about PSI selections for graduating students, see the *BC Dogwood Planner* (PDF) at [www.bced.gov.bc.ca/graduation/docs/bc-dogwood-planner](http://www.bced.gov.bc.ca/graduation/docs/bc-dogwood-planner) and talk to your school counsellor.

# Oops!

Forgot a course? Need to improve a mark before you apply for post-secondary education?

• If you are 18 years of age or older and want to find out about the Adult Graduation Program, please see your school counsellor.

You can upgrade. Almost all school districts have continuing education centres that provide services to both secondary school graduates and non-graduates. These centres help adult non-graduates complete their schooling. For more information, contact your local school district.

You can also upgrade with courses offered through public or independent distributed learning schools:

- At public distributed learning schools (see [www.bced.gov.bc.ca/dist\\_learning/](http://www.bced.gov.bc.ca/dist_learning/)), courses are free to most B.C. residents. For details, please check out the above web site, explore the LearnNowBC portal ([www.learnnowbc.ca](http://www.learnnowbc.ca)), or contact a public distributed learning school.
- Independent distributed learning schools may charge tuition fees. For details, please check out [www.bced.gov.bc.ca/independentschools/bc\\_guide/dl\\_program.htm](http://www.bced.gov.bc.ca/independentschools/bc_guide/dl_program.htm) or contact an independent distributed learning school.

And here's something to keep in mind if you leave school before completing graduation requirements: Graduation requirements change from time to time. If in the future you find that you need a Dogwood Diploma, you may not be able to just pick up where you left off, even if you're only one or two courses away from meeting graduation requirements. You may need to meet the requirements in place at that time to earn your diploma.

## 4 Exams, Awards and Scholarships

### Graduation Program Exams

You will probably write five graduation program exams. Graduation program exams apply to courses in the following subject areas:

- Grade 10 Language Arts
- Grade 10 Science
- Grade 10 Mathematics
- Grade 11 or 12 Social Studies
- Grade 12 Language Arts

Provincial exam results are blended with the classroom mark to generate the final course mark. All provincial exams count for 20% of the final mark, except in Grade 12 Language Arts, where the exam counts for 40% of the final mark.

With the exception of certain IB courses, exams are mandatory for all the courses that you take in these areas; for example, if you take Social Studies 11 and BC First Nations Studies 12, you must write the associated provincial exam for both courses.

Information about provincial exams can be found at:  
[www.bced.gov.bc.ca/exams/student.htm](http://www.bced.gov.bc.ca/exams/student.htm)

Policies on calculators, disqualification and other exam issues are in the *Handbook of Procedures for the Graduation Program* at:  
[www.bced.gov.bc.ca/exams/handbook/](http://www.bced.gov.bc.ca/exams/handbook/)

Sample exams are found at:  
[www.bced.gov.bc.ca/exams/search/](http://www.bced.gov.bc.ca/exams/search/)

Student exam results can be accessed on the Student Secure Web at:  
[www.bced.gov.bc.ca/exams/tsw/tsw/student/](http://www.bced.gov.bc.ca/exams/tsw/tsw/student/)

## Financing Your Future

• You'll learn about financing your future in Planning 10.

It's never too early to think about your future education. If you plan to continue your education beyond Grade 12, you can learn how to access money through scholarships available from the Ministry of Education. Scholarship winners receive vouchers to help with tuition costs at **designated post-secondary institutions** and **authorized trades-training providers**. See [www.bced.gov.bc.ca/awards/](http://www.bced.gov.bc.ca/awards/) for eligibility requirements and application information.

### District/Authority Scholarships

These \$1250 scholarships are awarded to graduating students with outstanding achievement in one of several areas of interest. The areas include:

- Indigenous Languages and Culture, demonstrated at school or in the community
- Fine Arts (e.g., Visual Arts, Dance, Drama, Music)
- Applied Skills (e.g., Business Ed, Technology Ed, Home Economics)
- Physical Activity (e.g., Athletics, Dance, Gymnastics, not limited to Physical Education)
- International Languages
- Community Service (Volunteer Activity), which includes demonstration of local and global issues and cultural awareness
- Technical and Trades Training (e.g., Carpentry, Automotive, Mechanics, Cook Training)

Students should apply for these scholarships in the year they graduate directly to their local scholarship committee. Independent school students should apply through their independent school authority.

### BC Excellence Scholarships

These \$5000 scholarships are awarded to 55 well-rounded graduates who demonstrate community service, leadership, and commitment to their chosen career paths. Each secondary school in BC may put forward a nominee who must submit an application package to the Ministry through their school district office.

### **BC Achievement Scholarships**

Graduating students with high achievement in a broad range of courses might qualify to win scholarships worth \$1250. These scholarships are based on academic achievement in required and elective courses that meet graduation requirements.

### **Pathway to Teacher Education Scholarships**

These \$5000 scholarships recognize 20 exceptional Grade 12 students who plan to become teachers in the K-12 education system. Winners will receive a scholarship voucher to redeem upon entrance to an approved BC Faculty of Education teacher-training program. Students apply to the Ministry of Education for this scholarship.

### **Secondary School Apprenticeship Awards**

Secondary School Apprenticeship (SSA) students are eligible for this award. The SSA Program Guide has additional information about criteria and procedures related to this award. Information is available at [www.bced.gov.bc.ca/careers/apprenticeship\\_trades.htm](http://www.bced.gov.bc.ca/careers/apprenticeship_trades.htm)

### **Other Awards**

Thousands of other scholarships and awards are available to graduating students. For a list, go to: [www.scholarshipscanada.com](http://www.scholarshipscanada.com)

## **5 Helpful Websites**

Throughout this document, you're encouraged to check different web sites for more information. Here's a quick summary that you can refer to as you plan your future.

**For information on the Graduation Program and Adult Graduation Program**  
[www.bced.gov.bc.ca/graduation/](http://www.bced.gov.bc.ca/graduation/)

**For information on B.C. Ministry of Education policies**  
[www.bced.gov.bc.ca/policy/policies/](http://www.bced.gov.bc.ca/policy/policies/)

**To learn more about career planning, building work skills and post-secondary options**

[www.workbc.ca](http://www.workbc.ca)

[www.educationplanner.ca](http://www.educationplanner.ca)

[www.bced.gov.bc.ca/careers/](http://www.bced.gov.bc.ca/careers/)

**For information on earning credits through external credentials**  
[www.bced.gov.bc.ca/graduation/ext\\_credentials/](http://www.bced.gov.bc.ca/graduation/ext_credentials/)

**For information about industry training and trades programs**  
[www.itabc.ca](http://www.itabc.ca)

[www.learnnowbc.ca/trades/TradesFinder.aspx](http://www.learnnowbc.ca/trades/TradesFinder.aspx)

**To explore options for completing graduation requirements via distributed learning**

[www.bced.gov.bc.ca/dist\\_learning/](http://www.bced.gov.bc.ca/dist_learning/)

or

[www.bced.gov.bc.ca/independentschools/bc\\_guide/dl\\_program.htm](http://www.bced.gov.bc.ca/independentschools/bc_guide/dl_program.htm)

**For information about finances and Planning 10**  
[www.bcsc.bc.ca/Planning10](http://www.bcsc.bc.ca/Planning10)



## 6 Appendix

### Top Jobs in Demand 2012-2022

The lists include occupations that require training, broadly defined as a university degree (Skill level A), college or apprenticeship training (Skill level B), and high school and/or occupation-specific training (Skill level C). Skill Level D, or lower-skilled occupations, are excluded. Management occupations are included in Skill Level A.

Skill levels are based on Statistics Canada's National Occupational Classification (NOC) system.

The Ministry of Health has identified the priority health professions in B.C. These occupations are presented separately from the top 60 lists of occupations that require training.

#### Provincial Priority Health Professions

- Audiologist
- Medical Laboratory Technologist
- Medical Radiation Technologist
- Occupational Therapist
- Physical Therapist
- Physician-General/Specialist
- Registered Nurse
- Registered Nurse – Specialty
- Speech Language Pathologist
- Ultrasonographer

#### Report Descriptions:

##### List 1: Top 60 occupations that require training – Post-Secondary Only

- Skill type 0\*, Skill level A and B

##### List 2: Top 60 occupations that require training

- Skill type 0\*, Skill level A, B and C

\* In this report, management occupations are identified using their skill type ("0") to distinguish them from other Skill Level A occupations.

## List 1: Top 60 occupations that require training – Post-Secondary Training Only

	NOC	OCCUPATION	JOB OPENINGS TO 2022	SKILL LEVEL
1	1241	Administrative assistants	17,600	B
2	1221	Administrative officers	17,500	B
3	7271	Carpenters	15,100	B
4	1111	Financial auditors and accountants	13,500	A
5	1311	Accounting technicians and bookkeepers	12,400	B
6	4212	Social and community service workers	10,100	B
7	4214	Early childhood educators and assistants	9,100	B
8	0711	Construction managers	8,400	0
9	7241	Electricians (except industrial and power system)	7,400	B
10	0631	Restaurant and food service managers	7,000	0
11	4021	College and other vocational instructors	6,900	A
12	7237	Welders and related machine operators	6,200	B
13	1224	Property administrators	5,300	B
14	4112	Lawyers	5,200	A
15	7252	Steamfitters, pipefitters and sprinkler system installers	4,900	B
16	7311	Construction millwrights and industrial mechanics	4,800	B
17	4011	University professors and lecturers	4,800	A
18	0016	Senior managers – construction, transportation, production and utilities	4,700	0
19	1122	Professional occupations in business management consulting	4,200	A
20	7312	Heavy-duty equipment mechanics	4,200	B
21	0712	Home building and renovation managers	4,200	0
22	0013	Senior managers- financial, communications and other business services	4,000	0
23	6321	Chefs	4,000	B
24	0714	Facility operation and maintenance managers	3,800	0
25	7251	Plumbers	3,700	B
26	2174	Computer programmers and interactive media developers	3,600	A
27	2131	Civil engineers	3,500	A
28	1123	Professional occupations in advertising, marketing and public relations	3,400	A
29	1225	Purchasing agents and officers	3,400	B
30	4311	Police officers (except commissioned)	3,400	B
31	4152	Social workers	3,300	A
32	5254	Program leaders and instructors in recreation, sport and fitness	3,300	B
33	1222	Executive assistants	3,000	B
34	4153	Family, marriage and other related counsellors	2,900	A
35	7205	Contractors and supervisors, other construction trades, installers, repairers and servicers	2,900	B
36	1242	Legal administrative assistants	2,800	B
37	1121	Human resources professionals	2,600	A
38	4163	Business development officers and marketing researchers and consultants	2,600	A
39	2133	Electrical and electronics engineers	2,500	A
40	2132	Mechanical engineers	2,400	A
41	7242	Industrial electricians	2,400	B
42	0731	Managers in transportation	2,300	0

	<b>NOC</b>	<b>OCCUPATION</b>	<b>JOB OPENINGS TO 2022</b>	<b>SKILL LEVEL</b>
43	0632	Accommodation service managers	2,300	0
44	7282	Concrete finishers	2,300	B
45	2241	Electrical and electronics engineering technologists and technicians	2,200	B
46	2263	Inspectors in public and environmental health and occupational health and safety	2,000	B
47	5121	Authors and writers	2,000	A
48	7231	Machinists and machining and tooling inspectors	1,900	B
49	7371	Crane operators	1,900	B
50	2253	Drafting technologists and technicians	1,800	B
51	4165	Health policy researchers, consultants and program officers	1,800	A
52	5242	Interior designers and interior decorators	1,800	B
53	7233	Sheet metal workers	1,700	B
54	9241	Power engineers and power systems operators	1,700	B
55	7253	Gas fitters	1,700	B
56	0211	Engineering managers	1,700	0
57	4312	Firefighters	1,700	B
58	6222	Retail and wholesale buyers	1,700	B
59	7204	Contractors and supervisors, carpentry trades	1,700	B
60	2264	Construction inspectors	1,600	B

### List 2: Top 60 occupations that require training

	<b>NOC</b>	<b>OCCUPATION</b>	<b>JOB OPENINGS TO 2022</b>	<b>SKILL LEVEL</b>
1	6421	Retail salespersons	32,700	C
2	7511	Transport truck drivers	18,000	C
3	1241	Administrative assistants	17,600	B
4	1221	Administrative officers	17,500	B
5	7271	Carpenters	15,100	B
6	1411	General office support workers	14,600	C
7	1111	Financial auditors and accountants	13,500	A
8	1414	Receptionists	13,200	C
9	1311	Accounting technicians and bookkeepers	12,400	B
10	6322	Cooks	10,200	B
11	4212	Social and community service workers	10,100	B
12	4214	Early childhood educators and assistants	9,100	B
13	0711	Construction managers	8,400	0
14	7521	Heavy equipment operators (except crane)	8,000	C
15	1431	Accounting and related clerks	7,800	C
16	6513	Food and beverage servers	7,800	C
17	6541	Security guards and related security service occupations	7,700	C
18	7452	Material handlers	7,600	C
19	7241	Electricians (except industrial and power system)	7,400	B
20	0631	Restaurant and food service managers	7,000	0

	<b>NOC</b>	<b>OCCUPATION</b>	<b>JOB OPENINGS TO 2022</b>	<b>SKILL LEVEL</b>
21	4021	College and other vocational instructors	6,900	A
22	7237	Welders and related machine operators	6,200	B
23	1224	Property administrators	5,300	B
24	4112	Lawyers	5,200	A
25	7252	Steamfitters, pipefitters and sprinkler system installers	4,900	B
26	7311	Construction millwrights and industrial mechanics	4,800	B
27	4011	University professors and lecturers	4,800	A
28	0016	Senior managers - construction, transportation, production and utilities	4,700	0
29	7294	Painters and decorators (except interior decorators)	4,400	B
30	4411	Home child care providers	4,300	C
31	7514	Delivery and courier service drivers	4,300	C
32	7312	Heavy-duty equipment mechanics	4,200	B
33	0712	Home building and renovation managers	4,200	0
34	1122	Professional occupations in business management consulting	4,200	A
35	0013	Senior managers – financial, communications and other business services	4,000	0
36	6321	Chefs	4,000	B
37	0714	Facility operation and maintenance managers	3,800	0
38	7251	Plumbers	3,700	B
39	2174	Computer programmers and interactive media developers	3,600	A
40	2131	Civil engineers	3,500	A
41	1123	Professional occupations in advertising, marketing & public relations	3,400	A
42	1225	Purchasing agents and officers	3,400	B
43	4311	Police officers (except commissioned)	3,400	B
44	5254	Program leaders and instructors in recreation, sport and fitness	3,300	B
45	4152	Social workers	3,300	A
46	6211	Retail sales supervisors	3,200	B
47	7441	Residential and commercial installers and servicers	3,100	C
48	7302	Contractors and supervisors, heavy equipment operator crews	3,100	B
49	7513	Taxi and limousine drivers and chauffeurs	3,000	C
50	1222	Executive assistants	3,000	B
51	4153	Family, marriage and other related counsellors	2,900	A
52	7205	Contractors and supervisors, other construction trades, installers, repairers and servicers	2,900	B
53	6332	Bakers	2,900	B
54	1242	Legal administrative assistants	2,800	B
55	4163	Business development officers ,marketing researchers and consultants	2,600	A
56	7284	Plasterers, drywall installers and finishers and lathers	2,600	B
57	1121	Human resources professionals	2,600	A
58	2133	Electrical and electronics engineers	2,400	A
59	2132	Mechanical engineers	2,400	A
60	7242	Industrial electricians	2,400	B

## 7 A Few Last Words

As you have seen, this document contains a lot of information, but it will make sense as you work through Planning 10.

The Graduation Program encourages you to take more responsibility for your learning decisions. You'll plan and make choices about your future. You'll have an opportunity to develop your potential. Use this document as a reference throughout your graduation years.

**The graduation years are exciting. Make the most of this time!**

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