

Block A: Safety Related Functions



Plumbing Apprenticeship Program Level 1 Series

Block A: Safety Related Functions

BC Plumbing Apprenticeship, Level 1

SKILLEDTRADESBC

*BC PIPING ARTICULATION AND CURRICULUM SUBCOMMITTEE;
AUDREY CURRAN; MARK OVERGAARD; AND PAUL SIMPSON*

TRU OPEN PRESS, THOMPSON RIVERS UNIVERSITY
KAMLOOPS, B.C.



Block A: Safety Related Functions Copyright © 2026 by Skilled Trades BC, TRU Open Press is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License (<https://creativecommons.org/licenses/by-nc-sa/4.0/>), except where otherwise noted.

Original material © SkilledTradesBC, All Rights Reserved. The original material provided by SkilledTradesBC has been adapted and modified with permission. ©COPYRIGHT TRU, 2026. Licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International (**CC BY-NC-SA 4.0** (<https://creativecommons.org/licenses/by-nc-sa/4.0/deed.en>)) licence.

This licence allows you to retain, reuse, copy, redistribute, and revise this resource — in whole or in part — for **non-commercial purposes**, provided that the adapted version is released under the same licence and the original creators are properly attributed as follows:

Block A: Safety Related Functions (<https://a-safetyfunctions-bcplumbingapprl1.pressbooks.tru.ca/>) by SkilledTradesBC, revised by the BC Articulation Curriculum Subcommittee, Audrey Curran, Mark Overgaard and TRU Open Press, is used under a **CC BY-NC-SA 4.0** (<https://creativecommons.org/licenses/by-nc-sa/4.0/deed.en>) licence. **Download for free at:** <https://a-safetyfunctions-bcplumbingapprl1.pressbooks.tru.ca/>

Suggested citation (APA 7th edition):

SkilledTradesBC. (2026). Block A: Safety Related Functions (Rev. ed.; adapted by Audrey Curran, Mark Overgaard, the BC Articulation Curriculum Subcommittee, & TRU Open Press). TRU Open Press, Thompson Rivers University.
<https://a-safetyfunctions-bcplumbingapprl1.pressbooks.tru.ca/>

Cover art attribution:

Cover art by Jessica Obando Almache, TRU Open Press, using Close up of PPE (<https://www.pexels.com/photo/close-up-of-ppe-8487733/>) by Kindel Media on Pexels under the Pexels License (<https://www.pexels.com/license/>).

This book was produced with Pressbooks (<https://pressbooks.com>) and rendered with Prince.

Contents

Block A: Safety Related Functions Introduction	1
<i>Plumbing Apprenticeship Program Level 1 Series</i>	1
<i>Disclaimer</i>	3
<i>Safety Advisory</i>	3
<i>Symbol Legend</i>	4
<i>Acknowledgements</i>	5
<i>Resources</i>	6
<i>Accessibility</i>	xi

A-2 WorkSafeBC Regulations	
A-2 WorksafeBC Regulations Introduction	137
References	139
A-2.1 Define Terms Used in the Workers Compensation Act	141
Definitions in the Act	141
Self-Test A-2.1: Define Terms Used in the Workers Compensation Act	142
References	142
A-2.2 Describe WCA Conditions of Compensation	144
Workers Who Are Covered	144
Compensated Injuries and Job-Related Illness	145
Circumstances for Compensation	145
Worker Benefits	146
Self-Test A-2.2: Describe WCA Conditions of Compensation	147
References	147
A-2.3 State the Responsibilities of Employers, Workers and Others at the Workplace	149
Employers' Workplace Responsibilities	149
Others' Workplace Responsibilities	150
Owners' Workplace Responsibilities	150
Suppliers' Workplace Responsibilities	151
Self-Test A-2.3: State the Responsibilities of Employers, Workers and Others at the Workplace	151
Workplace References	152
A-2.4 Describe the WCA Requirements for Reporting Workplace Accidents	153
Worker Report	153
Employer Report	154
Self-Test A-2.4: Describe the WCA Requirements for Reporting Workplace Accidents	154
References	155

A-2.5 Use the Occupational Health and Safety Regulation	156
<i>OHS Regulation Organization</i>	156
<i>Rights and Responsibilities</i>	157
<i>OHS Guidelines</i>	157
<i>Using the OHS Regulation</i>	157
<i>Self-Test A-2.5: Use the Occupational Health and Safety Regulation</i>	158
<i>References</i>	158
Self-Test A-2.1: Define Terms Used in the Workers Compensation Act	160
Answer Key: Self-Test A-2.1	161
Self-Test A-2.2: Describe WCA Conditions of Compensation	162
Answer Key: Self-Test A-2.2	163
Self-Test A-2.3: State the Responsibilities of Employers, Workers and Others at the Workplace	164
Answer Key: Self-Test A-2.3	165
Self-Test A-2.4: Describe the WCA Requirements for Reporting Workplace Accidents	166
Answer Key: Self-Test A-2.4	167
Self-Test A-2.5: Use the Occupational Health and Safety Regulation	168
Answer Key: Self-Test A-2.5	169

Appendix A	364
<i>Sample Safety Data Sheet for Chromium Acetate Hydroxide</i>	364
	365
	366
	367
	368
	369
	371
Version History	373
Plumbing Apprenticeship & Trade Resources in BC	374
<i>Plumbing Apprenticeship & Certification Resources</i> Ĉ	374
<i>Workplace Safety & Regulations</i>	374
<i>Financial Supports</i>	374
<i>Mental Health & Wellness Support</i>	375
<i>Crisis Support</i>	375

Block A of the Plumbing Apprenticeship Program Level 1 Series features Skilled Trades BC industry-authority content on safety related functions in plumbing. Safety is a part of the job. When you take a job, you have a safety obligation to your employer, co-workers, family, and yourself. By recognizing and understanding the hazards in your work area, you can prevent the occurrence of many accidents. Most accidents are preventable. Both employees and employers must take responsibility for making the workplace safe.

Block A of the Plumbing Apprenticeship Program Level 1 Series focuses on the causes and results of workplace accidents, the short- and long-term hazards in the trades, general safety precautions and procedures, emergency equipment and facilities, how a workplace safety policy is established, lockout and tagout procedures, and ladder and scaffold usage.

Plumbing Apprenticeship Program Level 1 Series

The *Plumbing Apprenticeship Program Level 1 Series* offers comprehensive training materials designed to build on foundational skills and knowledge. The series is divided into four main blocks, each focusing on critical areas of plumbing systems and installations.

Block A: Safety Related Functions

(<https://a-safetyfunctions-bcplumbingapprli.pressbooks.tru.ca>)

A-1: Workplace Hazards

A-2: WorkSafeBC Regulations

A-3: Safe Handling of Hazardous Materials

A-4: Personal Safety Practices

A-5: Fire Safety

Block B: Tools and Equipment

(<https://b-handmeasuringtools-bcplumbingapprli.pressbooks.tru.ca>)

B-1: Use Hand Tools and Measuring Tools

B-2: Use Portable Power Tools and Use

B-3: Use Access Equipment

B-4: Use Rigging, Hoisting, Lifting and Positioning Equipment, and Rigging

B-5: Use Soldering and Brazing Equipment and Oxy-Fuel Cutting Equipment

B-6: Use Welding Equipment

Block C: Routine Trade Activities and Electrical Concepts

(<https://c-tradeactivities-electrical-bcplumbingapprli.pressbooks.tru.ca>)

C-1: Mathematics and Science

C-2: Electrical Concepts and Principles of Electricity
C-3: Drawings and Specifications
C-4: Codes, Regulations and Standards
C-5: Manufacturer and Supplier Documentation

Block D: Piping and Components

(<https://d-pipingcomponents-bcplumbingappri1.pressbooks.tru.ca>)

D-1: Install Pipe and Tubing
D-2: Install Valves
D-3: Install Fittings
D-4: Penetrate Structures

Plumbing Apprenticeship Program Overview and Upcoming Resources

- **Plumbing Apprenticeship Program Level 1 Series** (<https://openpress.trubox.ca/2024/12/13/plumbing-apprentice-level-1/>) can be found in the TRU Open Press Collection.
- **Plumbing Apprenticeship Program Level 2 Series** (<https://openpress.trubox.ca/2024/04/26/bc-plumbing-apprenticeship-level-2/>) can be found in the TRU Open Press Collection.
- **Plumbing Apprenticeship Program Level 3 Series** (<https://collection.bccampus.ca/search/?q=%22pl3%22>) can be found in the BCCampus Open Collection (<https://collection.bccampus.ca/>).
- **Plumbing Apprenticeship Program Level 4 Series** (<https://bccampus.ca/projects/archives/zed-cred-z-degrees/ztc-open-educational-resources-for-trades/>) can be found in the BCCampus Open Collection. (<https://collection.bccampus.ca/>) (Block F: Commission and Service will be available soon.)

Disclaimer

The materials in these Learning Guides are intended for use by students and instructional staff. They have been compiled from sources believed to be reliable and to represent the best current opinions on these subjects. These manuals are designed to serve as a starting point for good practices and may not cover all minimum legal standards. No warranty, guarantee, or representation is made by the BC Piping Trades Articulation Committee, the Skilled Trades BC authority, or the King's Printer of British Columbia regarding the accuracy or sufficiency of the information contained in these publications. These manuals aim to provide basic guidelines for piping trades practices. Therefore, do not assume that all necessary warnings and safety precautions are included, and additional measures may be required.

Safety Advisory

The current Standards and Regulation in BC can be obtained at the WorkSafeBC website: <http://www.worksafebc.com> (<http://www.worksafebc.com>)

Please note that it is always the responsibility of any person using these materials to inform themselves about the Occupational Health and Safety Regulation pertaining to their areas of work.

Symbol Legend



Important Information



Potentially Toxic/ Poisonous Situation



Required or Optional Resources



Potentially Flammable Situation



Complete a Self-Test



Possibly Explosive Situation



Use Protective Equipment



Potential Electric Shock

Acknowledgements

The development of the *Plumbing Apprenticeship Level 1* learning resources was a collaborative effort driven by a commitment to excellence in trades education. These resources were created to support apprentices and journeypersons in mastering the skills and knowledge essential to the piping trades. This achievement would not have been possible without the dedication and expertise of *Skilled Trades BC* and the *Piping Trades Articulation Committee*, whose contributions, leadership, and guidance have been instrumental in shaping high-quality, industry-aligned training resources. We extend our sincere gratitude for their contributions and ongoing stewardship in advancing the piping trades.

The content for *Block A: Safety Related Functions* (<https://a-safetyfunctions-bcplumbingapprl1.pressbooks.tru.ca/>) is adapted from the Piping Trades Apprenticeship Program from *SkilledTradesBC* (2019 Harmonized) and the Trades Access Common Core (TACC) (<https://collection.bccampus.ca/search/?q=%22Trades%20Access%20Common%20Core%22>) resources developed by Camosun College, originally created in 2015 and revised in 2019, and made available through BCcampus:

- Line A: Safe Work Practices: Competency A-1: Control Workplace Hazards (<https://collection.bccampus.ca/resource/tQtm8KNK>)
- Line A: Safe Work Practices: Competency A-2: Describe WorkSafeBC Regulations (<https://collection.bccampus.ca/resource/4x48JU bq>)
- Line A: Safe Work Practices: Competency A-3: Handle Hazardous Materials Safely (<https://collection.bccampus.ca/resource/PMfB6kHM>)
- Line A: Safe Work Practices: Competency A-4: Describe Personal Safety Practices (<https://collection.bccampus.ca/resource/xQpDrgQM>)
- Line A: Safe Work Practices: Competency A-5: Describe Fire Safety (<https://collection.bccampus.ca/resource/VPwUd4rq>)

The original materials were produced in collaboration with industry partners and aligned with the Industry Training Authority (ITA) / *SkilledTradesBC* harmonized program outlines for Plumbing, Steamfitting/Pipefitting, and Sprinkler Fitting. These works were released under a Creative Commons Attribution 4.0 International (CC BY 4.0 (<https://creativecommons.org/licenses/by/4.0/>)) licence, except where otherwise noted.

This TRU Open Press edition includes editorial revisions, updated content, and the addition of new images, alongside selected images carried forward from the original Camosun College/BCcampus edition. Images in this work are licensed separately under their respective Creative Commons licences or the public domain, as credited in individual figure captions or attribution statements, unless otherwise noted. All images originally copyright the BC Industry Training Authority are licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International licence (CC-BY-NC-SA (<https://creativecommons.org/licenses/by-nc-sa/4.0/>)).

This adapted version has been reformatted and integrated into the current Thompson Rivers University / TRU Open Press open educational resource in collaboration with the BC Piping Articulation and Curriculum Subcommittee and *SkilledTradesBC*, in support of open, accessible, and up-to-date apprenticeship training.



The Open Press

The Open Press combines TRU's open platforms and expertise in learning design and open resource development to support the creation and reuse of open educational resources, while encouraging open scholarship and research.

Resource Development Team 2024-2026

Content Review, Revision, and Development: BC Plumbing Articulation Curriculum Subcommittee and Audrey Curran

Final Content Review and Revisions: Audrey Curran and Mark Overgaard, BCIT

Project Lead (TRU Plumbing Trades): Paul Simpson, Curriculum Subcommittee Chair

Author: SkilledTradesBC

Publishing Manager/ Copy Editing: Dani Collins, MEd

Production: Jessica Obando Almache, BCS

- Co-op Students:
 - Greg Vilac
 - Riley Phillips
 - Vansh Sethi
 - Jesse Perkins
 - Daniel Abdulai
 - Kobe Shimoyama
 - Jose Contreras Antequera

Resources

Content adapted from:

- ©2019, Skilled Trades BC (Harmonized)
- Open School BC
- Camosun College
- Trades Training BC

For the latest BC Plumbing Trades Program Outline (2025), see the SkilledTradesBC website: www.skilledtrades.bc.ca (<https://skilledtradesbc.ca/>)

To order printed copies of Program Outlines or learning resources (where available) for BC Trades, contact:

Crown Publications, King's Printer

Web: www.crownpub.bc.ca

Email: crownpub@gov.bc.ca

Toll Free: 1 800 663-6105

The topics in this book are aligned with the competencies in the Industry Training Authority Program Outlines for the Piping Trades:

- Piping Trades Apprenticeship Program – Perform Safety Related Functions – Level 1 Harmonized (2019) (Binder) (ISBN: 978-0-7726-7362-6; product no. 7960000260) Crown Publications Online Catalogue – Piping Trades Apprenticeship Program – Perform Safety Related Functions – Level 1 Harmonized (2019) (Binder) (https://www.crownpub.bc.ca/Product/Details/7960000260_S)
- Piping Trades Apprenticeship Program – Use Tools and Equipment – Level 1 Harmonized (2019) (Binder) (ISBN: 978-0-7726-7362-6; Product no. 7960000261) Crown Publications Online Catalogue – Piping Trades Apprenticeship Program – Use Tools and Equipment – Level 1 Harmonized (2019) (Binder) (https://www.crownpub.bc.ca/Product/Details/7960000261_S)
- Piping Trades Apprenticeship Program – Perform Routine Trade Activities and Apply Electrical Concepts – Level 1 Harmonized (2019) (Binder) (ISBN: 978-0-7726-7362-6; product no. 7960000262) Crown Publications Online Catalogue – Piping Trades Apprenticeship Program – Perform Routine Trade Activities and Apply Electrical Concepts – Level 1 Harmonized (2019) (Binder) (https://www.crownpub.bc.ca/Product/Details/7960000262_S)
- Piping Trades Apprenticeship Program – Prepare Piping and Components – Level 1 Harmonized (2019) (Binder) (ISBN: 978-0-7726-7362-6; product no. 7960000263) Crown Publications Online Catalogue – Piping Trades Apprenticeship Program – Prepare Piping and Components – Level 1 Harmonized (2019) (Binder) (https://www.crownpub.bc.ca/Product/Details/7960000263_S)

The following suppliers have kindly provided copyright permission for selected images:

- RIDGID TOOLS/Emerson Professional Tools

Any additional adapted versions of this content would require additional copyright permissions from the rights holders.

Creative Commons and site licensed images:

- Cover A-1: A lockout device applied to a hoist brake (https://commons.wikimedia.org/wiki/File:Lockout_on_hoist_brake.JPG) by Wtshymanski at Wikimedia Commons is used under a CC BY-SA 4.0 (<https://creativecommons.org/licenses/by-sa/4.0/deed.en>) license.
- Cover A-2: Safety is Everybody's Responsibility (<https://www.flickr.com/photos/thevoicewithin/432574750/>)! by Neil Crosby on Flickr is used under a CC BY-NC-SA 2.0 (<https://creativecommons.org/licenses/by-nc-sa/2.0/deed.en>) license.
- Cover A-3: Person Wearing White Suit Holding White Container (<https://www.pexels.com/photo/person-wearing-white-suit-holding-white-container-209230/>) by Pixabay on Pexels is used under a CC0 (<https://creativecommons.org/public-domain/cc0/>) license.
- Cover A-4: Person in PPE (<https://www.pexels.com/photo/person-in-ppe-848776/>) by Kindel Media at Pexels is used under the Pexels license. (<https://www.pexels.com/license/>)
- Cover A-5: Firefighter Holding Fire Extinguisher (<https://www.pexels.com/photo/firefighter-holding-fire-extinguisher-5965211/>) by Anna Shvets at Pexels is used under the Pexels license. (<https://www.pexels.com/license/>)
- **All other CC-licensed, site-licensed, and public domain images are attributed in the sections where they appear.**

All symbol icons are from the Noun Project and are used under a CC BY license:

- Important by Larea from Noun Project (<https://thenounproject.com/browse/icons/term/important/>) (CC BY 3.0 (<https://creativecommons.org/licenses/by/3.0/deed.en>))
- Skull and Crossbones by Luis Prado from Noun Project (<https://thenounproject.com/browse/icons/term/skull-and-crossbones/>) (CC BY 3.0 (<https://creativecommons.org/licenses/by/3.0/deed.en>))
- Resources by popcornarts from Noun Project (<https://thenounproject.com/browse/icons/term/resources/>) (CC BY 3.0 (<https://creativecommons.org/licenses/by/3.0/deed.en>))
- Flammable by yogi rista from Noun Project (<https://thenounproject.com/browse/icons/term/flammable/>) (CC BY 3.0 (<https://creativecommons.org/licenses/by/3.0/deed.en>))
- Checkbox by ims.icon from Noun Project (<https://thenounproject.com/browse/icons/term/checkbox/>) (CC BY 3.0 (<https://creativecommons.org/licenses/by/3.0/deed.en>))
- Explosive Materials by Ervin Bolat from Noun Project (<https://thenounproject.com/browse/icons/term/explosive-materials/>) (CC BY 3.0 (<https://creativecommons.org/licenses/by/3.0/deed.en>))
- Work gloves by perilous graphic from Noun Project (<https://thenounproject.com/browse/icons/term/work-gloves/>) (CC BY 3.0 (<https://creativecommons.org/licenses/by/3.0/deed.en>))
- Danger by Alice Design from Noun Project (<https://thenounproject.com/browse/icons/term/danger/>) (CC BY 3.0 (<https://creativecommons.org/licenses/by/3.0/deed.en>))
- Electricity by Alice Design from Noun Project (<https://thenounproject.com/browse/icons/term/electricity/>) (CC BY 3.0 (<https://creativecommons.org/licenses/by/3.0/deed.en>))

Land Acknowledgement

Thompson Rivers University (TRU) campuses are situated on the ancestral lands of the Tk'emlúps te Secwépemc and the T'exelc within Secwepemcúl'ecw, the ancestral and unceded territory of the Secwépemc. The rich tapestry of this land also encompasses the territories of the St'át'imc, Nlaka'pamux, Tšilhqot'in, Nuxalk, and Dakelh. Recognizing the deep histories and ongoing presence of these Indigenous peoples, we express gratitude for the wisdom held by this land. TRU is dedicated to fostering an inclusive and respectful environment, valuing education as a shared journey. TRU Open Press, inspired by collaborative learning on this land, upholds open principles and accessible education, nurturing respectful, reciprocal relationships through the shared exchange of knowledge across generations and communities.



TRU Wolves (<https://www.flickr.com/photos/thompsonrivers/52667199689/>) (Thompson Rivers University/Flickr) CC BY-NC-SA 2.0 (<https://creativecommons.org/licenses/by-nc-sa/2.0/>)

If you are using a printed copy, you can scan the QR code with your digital device to go directly to the video: Introducing SkilledTradesBC (<https://www.youtube.com/watch?v=OQgwdP0rNog>)



Starting December 1, 2022, Industry Training Authority was officially renamed to SkilledTradesBC. Hear more in this video from SkilledTradesBC CEO, Shelley Gray, on what this means for the trades industry and British Columbians. Closed captioning and transcripts are available with this video, Introducing Skilled Trades BC (<https://www.youtube.com/watch?v=OQgwdP0rNog>) (2022) on YouTube.



One or more interactive elements has been excluded from this version of the text. You can view them online here: <https://a-safetyfunctions-bcplumbingappr1.pressbooks.tru.ca/?p=1164> (<https://a-safetyfunctions-bcplumbingappr1.pressbooks.tru.ca/?p=1164>)

AI Use Statement

ChatGPT and other (AI) tools may have been used to assist with the development of glossary definitions, support copy editing for grammar, clarity, and readability, and revise some image content. All content was reviewed, revised, and verified by the authors to ensure accuracy and alignment with course and industry standards.

References

- Camosun College. (n.d.). *Line A: Safe work practices*. BCcampus. <https://collection.bccampus.ca/textbook/tQtm8KNK/>
- SkilledTradesBC. (2025). Plumber program outline (Implementation date: August 18, 2025; Last revised: December 16, 2025) [PDF]. Province of British Columbia. <https://skilledtradesbc.ca/media/2776/download>
- SkilledTradesBC. (2022, December 1). Introducing Skilled Trades BC. YouTube. <https://www.youtube.com/watch?v=OQgwdP0rNog>

Accessibility

The web version of *Block A: Safety Related Functions* (<https://a-safetyfunctions-bcplumbingapprl1.pressbooks.tru.ca/>) has been designed to meet Web Content Accessibility Guidelines 2.0 (<https://www.w3.org/TR/WCAG20/>), level AA. In addition, it follows all guidelines in Appendix A: Checklist for Accessibility (<https://opentextbc.ca/accessibilitytoolkit/back-matter/appendix-checklist-for-accessibility-toolkit/>) of the Accessibility Toolkit – 2nd Edition (<https://opentextbc.ca/accessibilitytoolkit/>).

Includes:

- **Easy navigation.** This resource has a linked table of contents and uses headings in each chapter to make navigation easy.
- **Accessible videos.** All videos in this resource have captions.
- **Accessible images.** All images in this resource that convey information have alternative text. Images that are decorative have empty alternative text.
- **Accessible links.** All links use descriptive link text.

Accessibility Checklist

Element	Requirements	Pass
Headings	Content is organized under headings and subheadings that are used sequentially.	Yes
Images	Images that convey information include alternative text descriptions. These descriptions are provided in the alt text field, in the surrounding text, or linked to as a long description.	Yes
Images	Images and text do not rely on colour to convey information.	Yes
Images	Images that are purely decorative or are already described in the surrounding text contain empty alternative text descriptions. (Descriptive text is unnecessary if the image doesn't convey contextual content information.)	Yes
Tables	Tables include row and/or column headers with the correct scope assigned.	Yes
Tables	Tables include a title or caption.	Yes
Tables	Tables do not have merged or split cells.	Yes
Tables	Tables have adequate cell padding.	Yes
Links	The link text describes the destination of the link.	Yes
Links	Links do not open new windows or tabs. If they do, a textual reference is included in the link text.	Yes
Links	Links to files include the file type in the link text.	Yes
Video	All videos include high-quality (i.e., not machine generated) captions of all speech content and relevant non-speech content.	Yes
Video	All videos with contextual visuals (graphs, charts, etc.) are described audibly in the video.	Yes
H5P	All H5P activities have been tested for accessibility by the H5P team and have passed their testing.	Yes
H5P	All H5P activities that include images, videos, and/or audio content meet the accessibility requirements for those media types.	Yes
Font	Font size is 12 point or higher for body text.	Yes
Font	Font size is 9 point for footnotes or endnotes.	Yes
Font	Font size can be zoomed to 200% in the webbook or eBook formats.	Yes

Known Accessibility Issues and Areas for Improvement

- Images in H5P self-tests lack alt text, attributions, and licenses to avoid revealing answers.
- Some tables may use merged cells, but they have been structured to work properly with screen readers and there may be long descriptions included in each section if readers prefer to see the table data in a bulleted list.
- Youtube videos do not have edited captions.

Adapted from the Accessibility Toolkit – 2nd Edition (<https://opentextbc.ca/accessibilitytoolkit/>) by BCcampus, licensed under CC-BY (<https://creativecommons.org/licenses/by/4.0/>).

Other Formats Available

- In addition to the web version, this book is available in a number of file formats, including PDF. The Print PDF has passed our Accessibility Check.

A-2 WORKSAFEBC REGULATIONS

Plumber Apprenticeship Program – Level 1



(Neil Crosby/ Flickr) CC BY-NC-SA 2.0 (<https://creativecommons.org/licenses/by-nc-sa/2.0/deed.en>)

A-2 WorksafeBC Regulations Introduction

In most provinces, one or more agencies are responsible for ensuring safe and healthy working environments at job sites. These organizations are often known as the Workers' Compensation Board (WCB) or an Occupational Health and Safety department. In British Columbia, **WorkSafeBC** is the provincial organization responsible for promoting workplace health and safety for workers and employers. When a work-related injury, disease, or death occurs, WorkSafeBC works with affected parties to provide return-to-work rehabilitation, health care benefits, compensation, and other services. WorkSafeBC also consults with and educates employers and workers on safe work practices, including monitoring workplaces within its jurisdiction.

This section covers a number of key documents, listed below. Compliance with all of these documents is required to help ensure a safe work environment.

- The **Workers Compensation Act (WCA)** is provincial legislation that authorizes and guides WorkSafeBC (the Workers' Compensation Board of British Columbia). The WCA also sets out the rights and responsibilities of employers and workers related to health and safety.
- The **Hazardous Products Act** is federal legislation that defines which materials are included in the Workplace Hazardous Materials Information System (WHMIS).
- The **Occupational Health and Safety (OHS) Regulation** contains the legal requirements that all workplaces within WorkSafeBC's inspection jurisdiction must meet. WorkSafeBC regularly reviews and updates the OHS Regulation based on experience and changes in knowledge, technology, and work practices.
- The **OHS Guidelines** are intended to help explain how to comply with legislation, not to provide exclusive interpretations. They provide guidance on technical matters needed to apply the Act and Regulations effectively and consistently. Because the OHS Guidelines are dynamic documents that are regularly updated, they are best accessed and maintained online.

Learning Objectives

You must be familiar with the Workers Compensation Act and Workers' Compensation Board of BC (WorkSafeBC).

When you have completed this section, you should be able to:

- Define terms used in the Workers Compensation Act.
- Describe the conditions under which compensation will be paid and the benefits available.
- Describe the workplace responsibilities of WorkSafeBC (the Worker's Compensation Board), the employer, and the worker.
- Describe the WCA requirements for reporting accidents.
- Use the Occupational Health and Safety Regulation.

Resources

You will be required to reference publications and videos available online at WorkSafeBC.
(<https://www.worksafebc.com/en>)

The following five documents on the WorkSafeBC website (<https://www.worksafebc.com/en/law-policy/occupational-health-safety>) are **essential to understanding and meeting the minimum requirements for occupational health and safety in British Columbia**:

- *Workers Compensation Act* (B.C.) (<https://www.worksafebc.com/en/law-policy/occupational-health-safety/searchable-ohs-regulation/workers-compensation-act>) (Act)
- *Hazardous Products Act* (Canada) summaries (<https://www.worksafebc.com/en/law-policy/occupational-health-safety/searchable-ohs-regulation/other-ohs-legislation/hazardous-products-act-canada--summary-of-key-sections>) (HPA)
- Occupational Health and Safety Regulation (<https://www.worksafebc.com/en/law-policy/occupational-health-safety/searchable-ohs-regulation/ohs-regulation>) (OHS Regulation)
- *Prevention Manual* (<https://www.worksafebc.com/en/resources/law-policy/prevention-manual/prevention-manual?lang=en>) (policies)
- OHS Guidelines (<https://www.worksafebc.com/en/law-policy/occupational-health-safety/searchable-ohs-regulation/ohs-guidelines>), to help interpret and apply the OHS Regulation and the Act

Terminology

The following terms will be used throughout this section. A complete list of terms for this section can be found in the **Glossary or in** Part 1 of the Workers Compensation Act (<https://www.worksafebc.com/en/law-policy/occupational-health-safety/searchable-ohs-regulation/workers-compensation-act/part-1-scope-of-act>).

- **accident:** An unexpected event at work that causes injury or harm, such as slipping on a wet floor or getting hurt while using tools. (Section A-2.1)
- **board:** (Workers' Compensation Board) The group that runs workers' compensation. It decides rules, helps injured workers, and makes sure workplaces follow safety laws. (Section A-2.1)
- **claim:** An official request made to WorkSafeBC for compensation after a worker is injured or becomes ill because of work. (Section A-2.4)
- **compensation:** Money or support given to a worker who is hurt at work, to help pay for things like medical care or time off work. (Section A-2.1)
- **compliance:** Following the rules and laws that are in place, such as workplace safety rules set by

WorkSafeBC. (Section A-2.5)

- **construction:** Work that involves building, fixing, or repairing things like houses, buildings, pipes, or plumbing systems. (Section A-2.1)
- **dependant:** A person who relies on a worker for money or care, such as a child or a spouse. (Section A-2.1)
- **employer:** A person or company that hires workers and pays them to do a job, such as a plumbing business owner. (Section A-2.1)
- **employment:** Having a job where a person works for an employer and gets paid. (Section A-2.1)
- **hazard:** Anything at work that could cause injury, illness, or harm, such as unsafe tools, chemicals, or dangerous conditions. (Section A-2.1)
- **industry:** A group of businesses that do the same type of work, such as plumbing, construction, or trades. (Section A-2.1)
- **member of family:** A close relative, such as a parent, child, sibling, or spouse. (Section A-2.1)
- **OHS Regulation:** A set of safety rules that explain how workplaces must protect workers' health and safety. (Section A-2.5)
- **person:** Any human being, including a worker, employer, or family member. (Section A-2.1)
- **procedure for refusal:** The process a worker follows when they have reasonable cause to believe that doing a task or using equipment would create an undue hazard and could put them in danger. (Section A-2.5)
- **reconsider:** To look at a decision again to see if it should be changed. (Section A-2.1)
- **regulation:** A rule made to explain how a law should be followed, such as safety rules for plumbing work. (Section A-2.1)
- **retirement benefit:** Money paid to a worker after they stop working, often because they are older or injured. (Section A-2.1)
- **undue hazard:** A serious or unnecessary danger that could cause harm to a worker. (Section A-2.5)
- **worker:** A person who does a job for an employer, such as a plumber or construction worker. (Section A-2.1)
- **Workers Compensation Act:** A law that explains how workers are protected if they are injured or become ill because of their job, and how employers must help pay for this protection. (Section A-2.2)

References

WorkSafeBC. (n.d.-a). Hazardous Products Act (Canada): Summaries.

<https://www.worksafebc.com/en/law-policy/health-safety/hazards-exposures/hazardous-products>

WorkSafeBC. (n.d.-b). Prevention Manual: Policies.

<https://www.worksafebc.com/en/law-policy/occupational-health-safety/prevention-manual>

WorkSafeBC. (n.d.-c). Occupational Health and Safety Regulation.

<https://www.worksafebc.com/en/law-policy/occupational-health-safety/searchable-ohs-regulation>

WorkSafeBC. (n.d.-d). OHS Guidelines.

<https://www.worksafebc.com/en/law-policy/occupational-health-safety/ohs-guidelines>

WorkSafeBC. (n.d.-e). Workers Compensation Act (British Columbia).

<https://www.worksafebc.com/en/law-policy/occupational-health-safety/searchable-ohs-regulation/workers-compensation-act>

A-2.1 Define Terms Used in the Workers Compensation Act

The Workers Compensation Act (<https://www.worksafebc.com/en/law-policy/occupational-health-safety/searchable-ohs-regulation/workers-compensation-act>) (WCA) is the foundation of workplace health and safety in British Columbia. It outlines the responsibilities of employers, workers, and WorkSafeBC to prevent injuries and provide compensation when accidents occur. Understanding the key terms and structure of the Act helps workers know their rights, recognize their duties, and understand how health and safety laws are applied on the job site.

The Workers Compensation Act (WCA) is divided into eight parts. These parts explain who the law applies to, how workplace safety is managed, and how injured workers are supported in British Columbia.

- **Part 1 – Scope of Act:** Explains who the Act applies to, including workers, employers, and workplaces.
- **Part 2 – Occupational Health and Safety:** Sets the rules for keeping workplaces safe and explains the duties of employers, supervisors, and workers.
- **Part 3 – Workers' Compensation System:** Describes how the workers' compensation system works and how claims are handled.
- **Part 4 – Compensation to Injured Workers and Their Dependents:** Explains the benefits and support available to workers who are injured at work and to their families.
- **Part 5 – Accident Fund and Employer Assessment:** Explains how the system is paid for and how employers contribute to the fund.
- **Part 6 – Review of Board Decisions:** Explains how some WorkSafeBC decisions can be reviewed.
- **Part 7 – Appeals to Appeal Tribunal:** Explains how decisions can be appealed to an independent appeal tribunal.
- **Part 8 – Workers' Compensation Board and General Matters:** Describes WorkSafeBC's role, powers, and general responsibilities.

Definitions in the Act

At the start of the WCA, there is a section dedicated to definitions; this ensures that the reader has a reference to the context of specific terms used within the document. If a word is not defined in this section, then the regular dictionary definition applies.

Go to the WorkSafeBC website (<https://www.worksafebc.com/en>) and use the search tool to find the full electronic version of the WCA.

Review the definitions of the following words in the Act:

- accident
- board
- compensation
- construction
- dependant
- employer
- employment

- industry
- member of family
- person
- reconsider
- regulation
- retirement benefit
- worker



Self-Test A-2.1: Define Terms Used in the Workers Compensation Act

Complete Self-Test A-2.1 and check your answers.

If you are using a printed copy, please find Self-Test A-2.1 and Answer Key at the end of this section. If you prefer, you can scan the QR code with your digital device to go directly to the interactive Self-Test.



An interactive H5P element has been excluded from this version of the text. You can view it online here:
<https://a-safetyfunctions-bcplumbingappr1.pressbooks.tru.ca/?p=1215#h5p-11> (<https://a-safetyfunctions-bcplumbingappr1.pressbooks.tru.ca/?p=1215#h5p-11>)

References

BC Industry Training Authority. (2019). *Piping trades apprenticeship program: Perform safety related functions—Level*

1 *harmonized* [Binder]. Crown Publications, Queen's Printer for British Columbia. https://www.crownpub.bc.ca/Product/Details/7960000260_S

Camosun College. (2015). *Line A: Safe Work Practices – Competency A-2: Describe WorkSafeBC regulations* (BCcampus). <https://collection.bccampus.ca/textbook/4x48JUbq/>

Camosun College. (2015). *Trades Access Common Core Competency A-2: Describe WorkSafeBC regulations*. Victoria, B.C.: Crown Publications. Download for free from the B.C. Open Textbook Collection (<https://open.bccampus.ca/browse-ourcollection/find-open-textbooks/>).

A-2.2 Describe WCA Conditions of Compensation



(Mikael Blomkvist/Pexels) Pexels License (<https://www.pexels.com/license/>)

The **Workers Compensation Act** provides benefits to workers who are injured or become ill as a result of their job. To receive these benefits, certain conditions must be met. Understanding how compensation is funded and who qualifies for benefits helps both workers and employers ensure that claims are handled fairly and that injured workers receive appropriate support.

All employers in British Columbia pay an **assessment fee**, which together cover all of WorkSafeBC's operating costs. These assessments help fund worksite inspections, training workers, and all the direct costs of jobsite or workplace injuries.

WorkSafeBC also collects **insurance premiums** from employers to cover the cost of workplace insurance. Employers are required to pay these premiums, just as anyone would for any other forms of insurance. Premiums are based on workers' assessable earnings, industry classification, and the employer's claims history. The premiums collected cover costs related to work-related injuries and diseases, including health care, wage-loss benefits, rehabilitation, and administration.

Workers Who Are Covered

In most provinces, all workers, whether permanent or casual, are covered by legislation in the industries listed below. Casual workers are those who are not on the regular payroll or in steady employment with a particular industry.

Industries covered include:

- Communications
- Lumbering
- Fishing
- Mining or quarrying
- Manufacturing

- Retail sales
- Public utilities
- Wholesale supply
- Transportation
- Government agencies
- Construction

Always check the current provincial legislation to confirm which occupations are covered, as requirements can change over time.

Compensated Injuries and Job-Related Illness

Workers' compensation is a **“no-fault” insurance** policy. This means that in most cases, a worker who is injured during work will be eligible for compensation, regardless of who was at fault. The Workers Compensation Act outlines compensation for personal injury claims in Part 4, Division 1. Workers normally receive compensation if they are covered under the legislation and “if, **in the course of employment**”, they:

- Suffer a personal injury or death
- Experience a mental disorder
- Contract an occupational disease such as mercury or lead poisoning, silicosis, asbestosis and other lung ailments, heart attack, radiation sickness, certain cancers, asthma, tendonitis, and heat stress
- Experience a loss of hearing

Circumstances for Compensation

If a worker is injured or becomes ill “in the course of employment,” that worker will normally receive compensation. The phrase “in the course of employment” does not mean the person has to be at work or on a jobsite: it means the worker must be doing something that is connected with the employment.

In deciding if an injured worker is eligible to receive compensation for injury or illness, WorkSafeBC considers the following questions:

- Did it occur on the employer's premises?
- Did it occur in the process of the worker doing something for the employer?
- Did it occur during an activity done in response to instructions from the employer?
- Did it occur while using equipment or materials supplied by the employer?
- Did it occur while receiving payment or other consideration from the employer?
- Was the risk that the worker was exposed to the same as the risk a worker is normally exposed to?
- Did it occur during a time period for which the worker was being paid?
- Was it caused by some activity of the employer or a co-worker?

After considering the questions listed above, the Board allows claims that are not directly related to “work” but are related to “employment.”

The examples below describe the types of decisions WorkSafeBC has made:

- A truck driver was hit by a car while crossing the street to return to her truck. She had been cashing her paycheque on company time. She was compensated for her injury.
- A mine worker in a remote mining camp fell down the bunkhouse steps in the leisure hours after his shift. He received compensation.
- A carpenter hired in Vernon was travelling to Vancouver to a new job. He was killed in an automobile accident. His widow received compensation.
- A worker was staying in a hotel while on company business. She fell in the hotel bathroom and fractured an ankle. She received compensation.
- A worker contracted a lung disease many years after working with asbestos fibres. He was compensated.

Worker Benefits

When a worker's claim is accepted, he or she will begin receiving benefits from WorkSafeBC.

The type and duration of the benefits depend on the nature of the injury and the work:

- Wage-loss benefits (<https://www.worksafebc.com/en/claims/benefits-services/wage-loss-benefits>) (WorkSafeBC, n.d.-d)
- Health-care benefits (<https://www.worksafebc.com/en/claims/benefits-services/health-care-benefits>) (WorkSafeBC, n.d.-a)
- Permanent disability benefits (<https://www.worksafebc.com/en/claims/benefits-services/permanent-disability-benefits>) (WorkSafeBC, n.d.-b)
- Services for families coping with a work-related death (<https://www.worksafebc.com/en/claims/benefits-services/death-benefits>) (WorkSafeBC, n.d.-c)

WorkSafeBC benefits begin immediately. Note that:

- The employer is responsible for a worker's wages on the day of injury.
- Wage-loss benefits from WorkSafeBC start the first scheduled shift lost after the day of a work-related injury or disease.
- Healthcare costs are covered on the day of injury.

A worker receives wage-loss benefits until the case manager concludes the worker is able to return to work or has recovered from the injury. If an employer can provide light or modified duties, and it's safe for the worker to do them, he or she can return to work to conduct those duties.

WorkSafeBC benefits can be suspended if:

- The worker does not attend or does not co-operate in a medical examination or program arranged by WorkSafeBC.
- The worker participates in any activity that might delay recovery.
- The worker refuses treatment recommended by WorkSafeBC.
- The claim is fraudulent.

Compensation benefits, also known as **wage-loss benefits**, are based on 90% of a worker's average net earnings.

Therefore, WorkSafeBC must determine both the average earnings of a worker as well as the worker's net earnings. There are also rules for short-term average net earnings (compensation up to 10 weeks) and special rules for long-term average net earnings (when the worker is disabled beyond 10 weeks).



Self-Test A-2.2: Describe WCA Conditions of Compensation

Complete Self-Test A-2.2 and check your answers.

If you are using a printed copy, please find Self-Test A-2.2 and Answer Key at the end of this section. If you prefer, you can scan the QR code with your digital device to go directly to the interactive Self-Test.



An interactive H5P element has been excluded from this version of the text. You can view it online here:
<https://a-safetyfunctions-bcplumbingappr1.pressbooks.tru.ca/?p=1217#h5p-12> (<https://a-safetyfunctions-bcplumbingappr1.pressbooks.tru.ca/?p=1217#h5p-12>)

References

- BC Industry Training Authority. (2019). *Piping trades apprenticeship program: Perform safety related functions—Level 1 harmonized* [Binder]. Crown Publications, Queen's Printer for British Columbia. https://www.crownpub.bc.ca/Product/Details/7960000260_S
- Camosun College. (2015). *Line A: Safe Work Practices – Competency A-2: Describe WorkSafeBC regulations* (BCcampus). <https://collection.bccampus.ca/textbook/4x48JU bq/>

Camosun College. (2015). Trades Access Common Core Competency A-2: Describe WorkSafeBC regulations. Victoria, B.C.: Crown Publications. Download for free from the B.C. Open Textbook Collection (<https://open.bccampus.ca/browse-ourcollection/find-open-textbooks/>).

WorkSafeBC. (n.d.-a). *Health-care benefits*. <https://www.worksafebc.com/en/claims/benefits-services/health-care-benefits>

WorkSafeBC. (n.d.-b). *Permanent disability benefits*. <https://www.worksafebc.com/en/claims/benefits-services/permanent-disability-benefits>

WorkSafeBC. (n.d.-c). *Services for families coping with a work-related death*. <https://www.worksafebc.com/en/claims/benefits-services/death-benefits>

WorkSafeBC. (n.d.-d). *Wage-loss benefits*. <https://www.worksafebc.com/en/claims/benefits-services/wage-loss-benefits>

Media Attribution

- A Worker Supporting an Injured Co-Worker, (<https://www.pexels.com/photo/a-worker-supporting-an-injured-co-worker-8961551/>) is by Mikael Blomkvist from Pexels and is used under the Pexels License. (<https://www.pexels.com/license/>)

A-2.3 State the Responsibilities of Employers, Workers and Others at the Workplace

A safe workplace is one that has a variety of people working together to ensure proper workplace safety is followed. Each person has a certain responsibility, and if each does her or his part, a safe workplace should result. The *Workers Compensation Act* (WCA) (https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/19001_00) identifies the responsibilities of three main groups, as shown in Figure 1. In some cases, an individual may have responsibilities in more than one group.

- Employer
- Worker
- Other:
 - Owner
 - Supervisor
 - Supplier

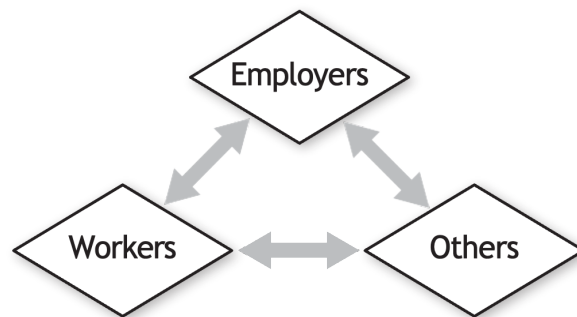


Figure 1 Workplace safety responsibility (BC Industry Training Authority, 2019). CC BY-NC-SA 4.0 (<https://creativecommons.org/licenses/by-nc-sa/4.0/>)

Division 4 – General Duties of Employers, Workers and Others (https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/19001_02#division_d1e2782) in Part 2 – Occupational Health and Safety (https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/19001_02#part2) of the WCA identify the general duties of employers, workers and others in the workplace.

Employers' Workplace Responsibilities

The WCA identifies responsibilities that are common to all places of employment. To ensure health and safety, the employer must:

- Remedy workplace hazardous conditions
- Ensure that workers:
 - Are aware of known or foreseeable hazards of their work

- Comply with the Act and Regulation
- Are made aware of their rights and duties
- Establish occupational health and safety policies
- Provide and maintain protective equipment, devices, and clothing as required
- Provide information, instruction, training, and supervision to workers carrying out their work
- Make a copy of the Act and Regulation available for review by workers
- Co-operate with workplace safety representatives and WorkSafeBC

Workers' Workplace Responsibilities

According to the WCA, the worker is responsible for his or her own safety on the job as well as the safety of others. The Act states that every worker must:

- Carry out work in accordance with established safe work procedures
- Use and wear protective equipment, devices and clothing as required
- Not engage in horseplay or similar conduct that endangers the worker or others
- Ensure that the worker's ability to work is not impaired by alcohol, drugs, or other causes
- Report to the supervisor or employer:
 - **Issues contravening the Act or Regulation**
 - Defects in or absence of protective equipment, devices and clothing
 - Existence of any hazards that the worker considers potentially dangerous
- Co-operate with workplace safety representatives and WorkSafeBC

Others' Workplace Responsibilities

Supervisors' Workplace Responsibilities

To ensure the health and safety of the workers under their direct supervision, a supervisor must:

- Be knowledgeable about the Act and any regulations that apply to their workplace
- Ensure workers are made aware of all known or reasonably foreseeable health or safety hazards in the area where they work
- Consult and co-operate with workplace safety representatives and WorkSafeBC

Owners' Workplace Responsibilities

Every owner of a workplace must:

- Provide and maintain the owner's land and premises that are being used as a workplace in a manner that ensures the health and safety of persons at or near the workplace

- Give to the employer or prime contractor at the workplace the information known to the owner that is necessary to identify and eliminate or control hazards to the health or safety of persons at the workplace

Suppliers' Workplace Responsibilities

Every supplier must:

- Ensure that any tool, equipment, machine or device or any biological, chemical or physical agent that they supply is safe when used according to the directions provided by the supplier
- Ensure that any biological, chemical or physical agent that they supply is labelled according to the applicable federal and provincial legislation
- Maintain any tool, equipment, machine or device in safe condition if the supplier has responsibility under a leasing agreement to maintain it



Self-Test A-2.3: State the Responsibilities of Employers, Workers and Others at the Workplace

Complete Self-Test A-2.3 and check your answers.

If you are using a printed copy, please find Self-Test A-2.3 and Answer Key at the end of this section. If you prefer, you can scan the QR code with your digital device to go directly to the interactive Self-Test.





An interactive H5P element has been excluded from this version of the text. You can view it online here:
<https://a-safetyfunctions-bcplumbingapprl1.pressbooks.tru.ca/?p=1219#h5p-15> (<https://a-safetyfunctions-bcplumbingapprl1.pressbooks.tru.ca/?p=1219#h5p-15>)

References

- BC Industry Training Authority. (2019). *Piping trades apprenticeship program: Perform safety related functions—Level 1 harmonized* [Binder]. Crown Publications, Queen's Printer for British Columbia. https://www.crownpub.bc.ca/Product/Details/7960000260_S
- Camosun College. (2015). *Line A: Safe Work Practices – Competency A-2: Describe WorkSafeBC regulations* (BCcampus). <https://collection.bccampus.ca/textbook/4x48JUbq/>
- Camosun College. (2015). *Trades Access Common Core Competency A-2: Describe WorkSafeBC regulations*. Victoria, B.C.: Crown Publications. Download for free from the B.C. Open Textbook Collection (<https://open.bccampus.ca/browse-ourcollection/find-open-textbooks/>).
- Government of British Columbia. (n.d.). *Workers Compensation Act: Part 2 – Occupational health and safety*. In *Workers Compensation Act* (RSBC 2019, c. 1). https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/19001_02
- WorkSafeBC. (n.d.). *Workers Compensation Act Part 2: Occupational health and safety*. <https://www.worksafebc.com/en/law-policy/occupational-health-safety/searchable-ohs-regulation/workers-compensation-act/part-2-occupational-health-and-safety>

A-2.4 Describe the WCA Requirements for Reporting Workplace Accidents

Whenever an injury occurs, both the worker and employer have an **obligation** to report the **incident** and injury. The worker is obliged to let the employer know, and the employer must report to WorkSafeBC. If either one fails to provide the required information, a compensation **claim** will be affected.

Worker Report

The worker must inform the employer of the incident as soon as reasonably possible after it occurs. The report must include the name of the worker, the time and place the injury occurred, and the nature of the injury. Informing the supervisor, first aid attendant, or superintendent will comply with the requirement to report to the employer. If requested by the employer, the worker must also provide the details of the injury by filling out a WorkSafeBC form. This information will also assist the employer in filling out the Form 7 injury and incident report.

Look at an example of Form 6A on the WorkSafeBC website: Worker's report of injury or occupational disease to employer: WorkSafeBC – Form 6A (<https://www.worksafebc.com/en/resources/claims/forms/workers-report-of-injury-or-occupational-disease-to-employer-form-6a>)

When applying for compensation and reporting a work-related injury or **occupational disease**, the worker can go to the WorkSafeBC website to find a number of reporting options under the Claims (<https://www.worksafebc.com/en/claims>) tab:

A worker will need details of the incident that caused the injury, the earnings information for any missed work, and health-care provider information for any medical treatment.

Option 1: Call Teleclaim

If a worker has missed work because of an injury, the first step is to start a claim by calling **Teleclaim** at 1-888-WORKERS (1-888-967-5377), Monday to Friday from 8 am to 6 pm.

The claims representative will provide the worker with a user ID and password to check claim details.

Option 2: Submit the Form Online

If a worker has missed work because of an injury and has a user ID and password, he or she can submit a Form 6 online. The advantage of having this type of online account is that the worker can log on later to see more details about the claim, including correspondence, claim decisions, and payment information.

Option 3: Report Injuries Not Resulting in Loss of Time from Work

If a worker has not missed work because of an injury, all that is required is to report the details about the incident to the employer as soon as possible.

You can see an example of an application for compensation at WorkSafeBC Application for Compensation and Report of Injury or Occupational Disease (Form 6). (<https://www.worksafebc.com/en/resources/claims/forms/application-for-compensation-and-report-of-injury-or-occupational-disease-form-6?lang=en>)

Employer Report

An employer must report to WorkSafeBC within three days of every injury or disabling occupational disease occurring to a worker that is—or is claimed to be—one arising out of and in the course of employment.

An employer must immediately report to WorkSafeBC the death of a worker whether the cause of death is claimed to have arisen from the work or outside the workplace.

The employer's report must be on the proper form supplied by WorkSafeBC. Failure to report an injury is an offence and could result in penalties.

You can see a sample of the employer's report of injury or occupational disease, Form 7, on the WorkSafeBC website: Employer's Report of Injury or Occupational Disease (Form 7) (<https://www.worksafebc.com/en/resources/claims/forms/employers-report-of-injury-or-occupational-disease-form-7>)

For employers, the quickest and easiest way to report a worker's injury or illness is online. The employer's incident and injury report is located here: How employers report a workplace injury or disease (http://www.worksafebc.com/claims/report_injury/incident_and_injury_report/default.asp)



Self-Test A-2.4: Describe the WCA Requirements for Reporting Workplace Accidents

Complete Self-Test A-2.4 and check your answers.

If you are using a printed copy, please find Self-Test A-2.4 and Answer Key at the end of this section. If you prefer, you can scan the QR code with your digital device to go directly to the interactive Self-Test.



An interactive H5P element has been excluded from this version of the text. You can view it online here:
<https://a-safetyfunctions-bcplumbingapprl1.pressbooks.tru.ca/?p=1221#h5p-14> (<https://a-safetyfunctions-bcplumbingapprl1.pressbooks.tru.ca/?p=1221#h5p-14>)

References

- BC Industry Training Authority. (2019). *Piping trades apprenticeship program: Perform safety related functions—Level 1 harmonized* [Binder]. Crown Publications, Queen's Printer for British Columbia. https://www.crownpub.bc.ca/Product/Details/7960000260_S
- Camosun College. (2015). *Line A: Safe Work Practices – Competency A-2: Describe WorkSafeBC regulations* (BCcampus). <https://collection.bccampus.ca/textbook/4x48JUbq/>
- Camosun College. (2015). *Trades Access Common Core Competency A-2: Describe WorkSafeBC regulations*. Victoria, B.C.: Crown Publications. Download for free from the B.C. Open Textbook Collection (<https://open.bccampus.ca/browse-ourcollection/find-open-textbooks/>).
- WorkSafeBC. (n.d.). Claims. <https://www.worksafebc.com/en/claims>
- WorkSafeBC. (n.d.). *Employer's Report of Injury or Occupational Disease (Form 7)*. <https://www.worksafebc.com/en/resources/claims/forms/employers-report-of-injury-or-occupational-disease-form-7>
- WorkSafeBC. (n.d.). *How employers report workplace injury or illness*. <https://www.worksafebc.com/en/claims/report-workplace-injury-illness/how-employers-report-workplace-injury-illness>
- WorkSafeBC. (n.d.). *Workers' Report of Injury or Occupational Disease to Employer (Form 6A)*. <https://www.worksafebc.com/en/resources/claims/forms/workers-report-of-injury-or-occupational-disease-to-employer-form-6a>

A-2.5 Use the Occupational Health and Safety Regulation

The purpose of the OHS Regulation is to promote occupational health and safety and to protect workers and others present at workplaces from work-related risks to their health, safety, and well-being. **Compliance** with the requirements provides the basis on which workers and employers, in co-operation, can solve workplace health and safety problems. The requirements are not an end in themselves but are a foundation on which to build an effective health and safety program.

OHS Regulation Organization

The **OHS Regulation** has 34 parts. Note: Part 33, Occupational First Aid, was repealed by B.C. Reg. 348/2003, effective March 30, 2004. Each Part covers a particular topic related to safety in the workplace (see Table 1).

Table 1. OHS Regulation Parts

1. Definitions	18. Traffic Control
2. Application	19. Electrical Safety
3. Rights and Responsibilities	20. Construction, Excavation and Demolition
4. General Conditions	21. Blasting Operations
5. Chemical Agents and Biological Agents	22. Underground Workings
6. Substance Specific Requirements	23. Oil and Gas
7. Noise, Vibration, Radiation and Temperature	24. Diving, Fishing and Other Marine Operations
8. Personal Protective Clothing and Equipment	25. Camps
9. Confined Spaces	26. Forestry Operations and Similar Activities
10. De-energization and Lockout	27. Wood Products Manufacturing
11. Fall Protection	28. Agriculture
12. Tools, Machinery and Equipment	29. Aircraft Operations
13. Ladders, Scaffolds and Temporary Work Platforms	30. Laboratories
14. Cranes and Hoists	31. Firefighting
15. Rigging	32. Evacuation and Rescue
16. Mobile Equipment	33. Not in effect
17. Transportation of Workers	34. Rope access

The titles of the Parts are grouped as follows:

- Parts 1–4: Core Requirements apply to all workplaces
- Parts 5–19: General Hazard Requirements deal with general hazards found in a number of workplaces, usually

higher-hazard operations

- Parts 20–32 and 34: Industry/Activity-Specific Requirements deal with specific industries or specific hazardous activities

Rights and Responsibilities

In Part 3 of the Regulation, “Rights and Responsibilities” Section 3.12 Procedure for refusal (<https://www.worksafebc.com/en/law-policy/occupational-health-safety/searchable-ohs-regulation/ohs-regulation/part-03-rights-and-responsibilities#SectionNumber:3.12>) explains that you have the right to refuse to do any act or operate any tool, appliance or equipment when you have reasonable cause to believe that to do so would put you in danger.

OHS Guidelines

When you read the language in the Regulation, you may sometimes encounter wording that can be interpreted in different ways.

For example, the “**Procedure for refusal**” section uses the wording “**reasonable cause to believe**” and “**undue hazard**.” In many situations, these terms are straightforward to apply. However, in some situations, it may be more difficult to determine whether a worker has reasonable cause to believe there is an undue hazard. For this reason, many parts of the OHS Regulation have associated OHS Guidelines, which are used to help interpret and apply the Regulation.

If you are looking at a section of the Regulation on the WorkSafeBC website or app, you can consult the related guidelines, which explain how to determine whether a worker has “reasonable cause to believe” that an undue hazard exists or would be created, and what qualifies as an “undue hazard.” The guidelines also describe the investigation process for a work refusal, including situations where the procedure under section 3.12(3) of the Regulation has not resolved the work stoppage.

Using the OHS Regulation

It is important that a worker be able to locate and interpret regulations that deal with situations that commonly arise in the trades. The *Occupational Health & Safety (OHS) Regulation* is an important resource, and familiarity with its contents is essential for all tradespeople. Using the online search tool is a helpful aid for identifying or confirming regulations that apply to specific situations you may encounter on your job site.



Self-Test A-2.5: Use the Occupational Health and Safety Regulation

Complete Self-Test A-2.5 and check your answers.

If you are using a printed copy, please find Self-Test A-2.5 and Answer Key at the end of this section. If you prefer, you can scan the QR code with your digital device to go directly to the interactive Self-Test.



An interactive H5P element has been excluded from this version of the text. You can view it online here:
<https://a-safetyfunctions-bcplumbingappr1.pressbooks.tru.ca/?p=1223#h5p-16> (<https://a-safetyfunctions-bcplumbingappr1.pressbooks.tru.ca/?p=1223#h5p-16>)

References

- BC Industry Training Authority. (2019). *Piping trades apprenticeship program: Perform safety related functions—Level 1 harmonized* [Binder]. Crown Publications, Queen's Printer for British Columbia. https://www.crownpub.bc.ca/Product/Details/7960000260_S
- Camosun College. (2015). *Line A: Safe Work Practices — Competency A-2: Describe WorkSafeBC regulations* (BCcampus). <https://collection.bccampus.ca/textbook/4x48JUbq/>
- Camosun College. (2015). *Trades Access Common Core Competency A-2: Describe WorkSafeBC regulations*. Victoria, B.C.: Crown Publications. Download for free from the B.C. Open Textbook Collection (<https://open.bccampus.ca/browse-ourcollection/find-open-textbooks/>).

WorkSafeBC. (n.d.). *Occupational Health and Safety Regulation*. <https://www.worksafebc.com/en/law-policy/occupational-health-safety/searchable-ohs-regulation/ohs-regulation>

WorkSafeBC. (n.d.). *OHS Regulation Part 03: Rights and responsibilities, section 3.12*. <https://www.worksafebc.com/en/law-policy/occupational-health-safety/searchable-ohs-regulation/ohs-regulation/part-03-rights-and-responsibilities#SectionNumber:3.12>

Self-Test A-2.1: Define Terms Used in the Workers Compensation Act

Complete Self-Test A-2.1 and check your answers.

1. What is the definition of “regulation” according to the *Workers Compensation Act*?
 - a. Time allotted to report an incident
 - b. Rules to determine who is eligible for compensation
 - c. Description of who is responsible for a worker’s claim
 - d. Rules of law to guide safe work procedures and policy
2. Under what jurisdiction is the *Hazardous Products Act* found?
 - a. Local
 - b. Federal
 - c. Provincial
 - d. Municipal
3. Under what jurisdiction is the *Workers Compensation Act* found?
 - a. Local
 - b. Federal
 - c. Provincial
 - d. Municipal
4. It is the worker’s responsibility to be familiar with the *Workers Compensation Act*.
 - a. True
 - b. False

Answer Key: Self-Test A-2.1 is on the other page.

Answer Key: Self-Test A-2.1

1. d. Rules of law to guide safe work procedures and policy
2. b. Federal
3. c. Provincial
4. a. True

Self-Test A-2.2: Describe WCA Conditions of Compensation

Complete Self-Test A-2.2 and check your answers.

1. What factors can be used to assess a company's insurance premiums?
 - a. Company earnings
 - b. Inspections, training of workers, and operating costs
 - c. Industry classification, a company's history, and employee's earnings
 - d. Number of vehicles in a company's fleet and number of older workers
2. When would a worker expect to be denied compensation?
 - a. Worker suffers hearing loss
 - b. Worker injures themselves as a result of clumsiness
 - c. Worker contracts an occupational disease such as silicosis
 - d. None of the above
3. A worker who receives an injury while living in a remote camp should not expect to be compensated.
 - a. True
 - b. False
4. There is often a two-week waiting period before benefits are paid out.
 - a. True
 - b. False
5. Which of the following activities could result in the suspension of benefits?
 - a. Receiving acupuncture treatment for an injury
 - b. Visiting your family doctor to discuss recovery
 - c. Refusing to co-operate in a WorkSafeBC medical examination
 - d. Claiming you are suffering from an occupational disease, not an injury
6. WorkSafeBC benefits cover all medical expenses except for costs from the day of the injury because the claim was not active yet.
 - a. True
 - b. False
7. The phrase "in the course of employment" means a worker is only performing tasks at work, on the clock.
 - a. True
 - b. False
8. When can a worker return to work?
 - a. When the case manager deems the worker ready for work
 - b. If the employer can provide modified or light duty deemed safe
 - c. When the worker has recovered from the injury and it is safe to work again
 - d. All of the above

Answer Key: Self-Test A-2.2 is on the other page.

Answer Key: Self-Test A-2.2

1. c. Industry classification, a company's history, and employee's earnings
2. d. None of the above
3. b. False
4. b. False
5. c. Refusing to co-operate in a WorkSafeBC medical examination
6. b. False
7. b. False
8. d. All of the above

Self-Test A-2.3: State the Responsibilities of Employers, Workers and Others at the Workplace

Complete Self-Test A-2.3 and check your answers.

1. Who is responsible for a worker's safe behaviour?
 - a. Owner
 - b. Worker
 - c. Employer
 - d. Supervisor
2. Who is responsible for making workers aware of hazards on the job?
 - a. Owner
 - b. Worker
 - c. Supplier
 - d. Supervisor
3. Who is responsible for removing any known workplace hazards?
 - a. Owner
 - b. Worker
 - c. Supplier
 - d. Employer
4. Who is responsible for ensuring any biological, chemical or physical agent is properly identified and labelled according to local regulations?
 - a. Owner
 - b. Worker
 - c. Supplier
 - d. Employer
5. Where can you find the description of the responsibilities of employers, workers and others to create a safe workplace?
 - a. WHMIS
 - b. Right to Work Act
 - c. Hazardous Products Act
 - d. Workers Compensation Act

Answer Key: Self-Test A-2.3 is on the other page.

Answer Key: Self-Test A-2.3

1. b. Worker
2. d. Supervisor
3. d. Employer
4. c. Supplier
5. d. Workers Compensation Act

Self-Test A-2.4: Describe the WCA Requirements for Reporting Workplace Accidents

Complete Self-Test A-2.4 and check your answers.

1. How soon must an employer report a worker's injury to WorkSafeBC?
 - a. Within 24 hours
 - b. Within 48 hours
 - c. Within 72 hours
 - d. Before the end of the day
2. How soon must a worker report an injury or occupational disease to the employer?
 - a. Within 24 hours
 - b. Within 48 hours
 - c. Within 72 hours
 - d. As soon as reasonably possible
3. Once a worker has reported an injury to the employer, the reporting process is complete.
 - a. True
 - b. False
4. When the worker reports an injury-causing incident that required medical treatment, what information will he or she will need?
 - a. Earnings information
 - b. Details of the incident
 - c. Name of healthcare provider
 - d. All of the above

Answer Key: Self-Test A-2.4 is on the other page.

Answer Key: Self-Test A-2.4

1. c. Within 72 hours
2. d. As soon as reasonably possible
3. b. False
4. d. All of the above

Self-Test A-2.5: Use the Occupational Health and Safety Regulation

Complete Self-Test A-2.5 and check your answers.

1. What do the letters OHS stand for?
 - a. Operational Health Standards
 - b. Organized Health Stipulations
 - c. Organized Health Specifications
 - d. Occupational Health and Safety
2. Where in the OHS Regulation would you find information on fall protection?
 - a. Part 33: Fall Arrest
 - b. Parts 1–4: Core Requirements
 - c. Parts 5–19: General Hazard Requirements
 - d. Parts 20–32: Industry/Activity Specific Requirements
3. If a worker needs information to help interpret OHS regulations associated with common safety situations that can arise in the trades, what resources can he or she find in the OHS Regulation?
 - a. Policies
 - b. Guidelines
 - c. Shop Rules
 - d. IPT Handbook
4. The OHS Regulation is written specifically for employers, not workers.
 - a. True
 - b. False
5. It is important that a worker can locate and interpret the OHS Regulation.
 - a. True
 - b. False
6. The OHS Regulation can provide helpful information and safety guidelines to be used on the job site.
 - a. True
 - b. False

Answer Key: Self-Test A-2.5 is on the other page.

Answer Key: Self-Test A-2.5

1. d. Occupational Health and Safety
2. c. Parts 5-19: General Hazard Requirements
3. b. Guidelines
4. b. False
5. a. True
6. a. True

Sample Safety Data Sheet for Chromium Acetate Hydroxide

Printable PDF: Cr-Ac-OH-MSDS_SigmaAldrich (http://a-safetyfunctions-bcplumbingapprl1.pressbooks.tru.ca/wp-content/uploads/sites/241/2025/01/Cr-Ac-OH-MSDS_SigmaAldrich.pdf)

Material Safety Data Sheet

Version 4.1
Revision Date 10/23/2010
Print Date 02/08/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	: Chromium(III) acetate hydroxide	
Product Number	: 318108	
Brand	: Aldrich	
Product Use	: For laboratory research purposes.	
Supplier	: Sigma-Aldrich Canada, Ltd 2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA	Manufacturer : Sigma-Aldrich Corporation 3050 Spruce St. St. Louis, Missouri 63103 USA
Telephone	: +19058299500	
Fax	: +19058299292	
Emergency Phone # (For both supplier and manufacturer)	: 1-800-424-9300	
Preparation Information	: Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956	

2. HAZARDS IDENTIFICATION

Emergency Overview

WHMIS Classification

Not WHMIS controlled.

Not WHMIS controlled.

GHS Classification

Acute toxicity, Inhalation (Category 4)
Acute toxicity, Dermal (Category 4)
Acute toxicity, Oral (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)

GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H302 + H312	Harmful if swallowed or in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Precautionary statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P322 Specific measures (see supplemental first aid instructions on this label).
P330 Rinse mouth.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification

Health hazard: 0
Flammability: 0
Physical hazards: 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : $C_{14}H_{23}Cr_3O_{16}$
Molecular Weight : 603.31 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Chromium(III) acetate hydroxide			
39430-51-8	254-447-3	-	-

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Chromium oxides

Explosion data - sensitivity to mechanical impact

no data available

Explosion data - sensitivity to static discharge

no data available

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment**Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	powder
Colour	green

Safety data

pH	no data available
Melting/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

no data available

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Chromium oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

no data available

Inhalation LC50

Dermal LD50

Other information on acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

no data available

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION**Toxicity**

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

DSL Status

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

Chromium(III) acetate hydroxide

CAS-No.
39430-51-8

WHMIS Classification

Not WHMIS controlled.

Not WHMIS controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

Further information

Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Referred to in A-3.4 Describe Information to be Disclosed on a Safety Data Sheet (SDS)

Media Attribution

- “Cr-Ac-OH-MSDS SigmaAldrich.pdf (https://commons.wikimedia.org/w/index.php?title=File:Cr-Ac-OH-MSDS_SigmaAldrich.pdf&page=1)” by EHSADMIN from Wikimedia Commons is used under a CC BY-SA 3.0 (<https://creativecommons.org/licenses/by-sa/3.0/>) license.

Version History

This page provides a record of changes made to this learning resource, Plumbing Apprenticeship Level 1, Block A (<https://a-safetyfunctions-bcplumbingappr1.pressbooks.tru.ca/>). Each update increases the version number by 0.1. The most recent version is reflected in the exported files for this resource.

Important Notice: This book contains content used with permission from Skilled Trades BC, Trades Training BC, and various third-party contributors, with all third-party content identified and attributed throughout. To create your own version, you must obtain explicit permission from Skilled Trades BC and the respective third-party content owners.

If you identify an error in this resource, please report it using the TRU Open Education Resource Error Form.

Version	Date	Change	Details
1.0	May, 2026	Plumbing Apprenticeship Level 1 Block A learning resource from STBC content converted to open and freely accessible digital platform and published at TRU.	

Plumbing Apprenticeship & Trade Resources in BC

A successful career in plumbing requires a strong foundation of skills, knowledge, and workplace safety awareness. Below are key resources to support plumbing apprentices in BC, including educational pathways, trade certifications, workplace safety guidelines, and mental health and wellness support.

Plumbing Apprenticeship & Certification Resources

- **SkilledTradesBC – Plumbing Apprenticeship** (<https://skilledtradesbc.ca/plumber>) – Overview of plumbing training, certification requirements, and apprenticeship pathways in British Columbia.
- **Red Seal Program – Plumber** (<https://www.red-seal.ca/eng/trades/plumbers/overview.shtml>) – National certification program with exam prep guides and trade mobility information.
- **BC Building Codes & Standards** (<https://www.bccodes.ca/>) – Official building and plumbing codes for British Columbia.

Workplace Safety & Regulations

- **WorkSafeBC** (<https://www.worksafebc.com/en>) – Essential safety resources for plumbers, including:
 - Health & Safety – WorkSafeBC (<https://www.worksafebc.com/en/health-safety>)
 - Report Unsafe Working Conditions (<https://www.worksafebc.com/en/contact-us/departments-and-services/health-safety-prevention>)
 - Report a Workplace Injury or Disease (<https://www.worksafebc.com/en/claims/report-workplace-injury-illness>)
 - Submit a Notice of Project Form (<https://www.worksafebc.com/en/for-employers/just-for-you/submit-notice-project>)
 - Get Health and Safety Resources (Videos, Posters, Publications, and More) (<https://www.worksafebc.com/en/resources-health-safety>)
 - Search the OHS Regulations (and Related Materials) (<https://www.worksafebc.com/en/law-policy/occupational-health-safety/searchable-ohs-regulation>)
 - Conduct an Incident Investigation (<https://www.worksafebc.com/en/health-safety/create-manage/incident-investigations/conducting-employer-investigation>)
- **CCOHS: OHS Answers Fact Sheets – Plumber** (https://www.ccohs.ca/oshanswers/occup_workplace/plumber.html) – Safety guidelines and best practices for plumbers in various work environments.

Financial Supports

- **Financial Support (SkilledTradesBC)** (<https://skilledtradesbc.ca/financial-support>) – Information about grants, tax credits, Canada apprentice loans, employment insurance, and the Indigenous Skills and Employment Training

(ISET) program.

- **StudentAidBC** (<https://studentaidbc.ca/>) – Complete post-secondary education through student loans, grants, and scholarships. There is also programs that help with loan repayment.
- **WorkBC (Government of BC)** (<https://www.workbc.ca/find-loans-and-grants/students-and-adult-learners/services-apprentices-and-employers>) – Services for apprentices and employers.

Mental Health & Wellness Support

- **HealthLink BC – Mental Health and Substance Use** (<https://www.healthlinkbc.ca/mental-health-and-substance-use>) – HealthLink BC resources for mental health and wellness support.
- **Here2Talk** (<https://here2talk.ca/>) – Free and confidential counseling services available to all post-secondary students registered at a BC school.
- **Help Starts Here** (<https://helpstartshere.gov.bc.ca/>) – A database with over 2,500 listings of services related to mental health and substance use supports.
- **Hope for Wellness Helpline** (<https://www.hopeforwellness.ca/>) – 24/7 online chat and phone line with experienced and culturally competent counselors available to all Indigenous people in Canada.
 - First Nations Health Authority Mental Health Supports Info Sheet [PDF] (<https://www.fnha.ca/Documents/FNHA-mental-health-and-wellness-supports-for-indigenous-people.pdf>) by First Nations health Authority – List of culturally safe services for Indigenous people.
- **HeretoHelp – BC** (<https://www.heretohelp.bc.ca/>) – Mental health resources, including videos, articles, and support services in BC.
- **BC Construction Industry Rehabilitation Plan** (<https://www.constructionrehabplan.com/>) – Mental health and substance use services for CLRA and BCBT members and their families.
- **Virtual Mental Health Supports (Government of BC)** (<https://www2.gov.bc.ca/gov/content/health/managing-your-health/mental-health-substance-use/virtual-mental-health-supports>) – Virtual services are available for British Columbians who are experiencing anxiety, depression, or other mental health challenges.

Crisis Support

- **Interior Crisis Line Network** – Call 1-888-353-2273 (tel:+1-888-353-2273) for 24/7 emotional support, crisis intervention, and community resource information.
- **Talk Suicide Chat Service** (<https://talksuicide.ca/>) – An alternative if calling is difficult; available for crisis intervention.
- **310Mental Health Support** – Call 250-310-6789 (tel:+1-250-310-6789) for emotional support, information, and resources specific to mental health.
- **1-800-SUICIDE** – Call 1-800-784-2433 (tel:+1-800-784-2433) if you are experiencing feelings of distress or despair, including thoughts of suicide.
- **Opioid Treatment Access Line** – Call 1-833-804-8111 (tel:+1-833-804-8111) between 9 am and 4 pm to connect with a doctor, nurse, or healthcare worker who can prescribe opioid treatment medication that same day.
- **KUU-US Crisis Response Service** – Call 1-800-588-8717 (tel:+1-800-588-8717) for culturally-aware crisis support for Indigenous peoples in BC.
- **Alcohol and Drug Information and Referral Service** – Call 1-800-663-1441 (tel:+1-800-663-1441) to find resources and support.



Emergency Services — For life-threatening situations, call 911 or visit your nearest emergency department.