

**FINAL DRAFT**



**DND UXO and Legacy Sites Program  
Federal and Provincial Diving and Explosives  
Qualification's Tables**

**August 2008**

## **Foreword**

The DND UXO and Legacy Sites Program has identified underwater sites as a key area of responsibility. The Program is currently developing a strategy through which these underwater sites can be dealt with by the Commercial Diving and Blasting Industry. This document has been initiated in support of this strategy and provides a series of tables that identifies the jurisdiction that enforces diving and/or blasting legislation and the nature of any diving or blasting competency certification required.

Links to both Federal and Provincial web sites are included in the table to provide the reader with access to current Canadian occupational diving and blasting health and safety legislation along with the required competency qualifications necessary to conduct these operations.

The information found in this document is not intended to be an exhaustive interpretation or to constitute legal advice to the reader. This document is prepared for convenience only, and for accurate reference, the reader should refer to the official volumes of the legislation. This document does *not* contain *the* official version of these regulations.

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## Canadian Diving and Blasting Regulation and Competency Requirements Comparison Table dated April 1 2008

Jurisdiction	Dive Regulation		Dive Competency Certificate		Blasting Regulation		Blasting Competency Certificate	
	Yes	No	Yes	No	Yes	No	Yes	No
Alberta	Z275.2		Z275.4		OHS Reg. Part 39		Issued by Prov.	
British Columbia	Internal		Z275.4		OHS Reg. Part 21		Issued by Prov.	
Manitoba	Z275.2		Z275.4		Reg. 217/2006		Issued by Prov.	
New Brunswick	Internal		Must be Competent		Part XII Reg 91-191		Issued by Prov.	
Newfoundland/Labrador	Z275.2		Z275.4 modified		OHS Reg. S.155-166		Issued by Prov.	
Nova Scotia	Internal		Z275.4		OHS Reg. 89/2008		Issued by Prov.	
Nunavut	Z275.2 Review		Z275.4		Explosives Reg. 1990		Issued by Prov.	
N.W.T.	Z275.2		Z275.4		Explosive Reg. 1990		Issued by Prov.	
Ontario	Internal		Z275.4		Re. 213/91 S. 196-206			Must be Competent
P.E.I.	Z275.2		Z275.4		OHS. Reg. Part 26			Must be Competent
Quebec	Z275.2 Review		Z275.4 Review		Safety Code Const.Industry S. 4		Issued by Prov.	
Saskatchewan	Internal		Must be Competent		OHS. Reg. Part XXVI			Written Authorization
Yukon		*		*	OHS. Reg. Part 14		Issued by Prov.	
CDN Federal	Internal		Internal		Explosives Act		Fireworks & Pyrotechnical	

Z275.2 - CSA Standard "Occupational Safety Code for Diving Operations"

Z275.4 - CSA Standard "Competency Standard for Diving Operations"

Internal - In-house legislation

Review - Regulation Under review - future amendment possible

Must be Competent - Responsibility of employer

Written Authorization - Authorization by Director

Modified - Standard adopted with slight modification

## Alberta Diving Overview

Government		Workplace Health & Safety Policy & Legislation
Department (s)		Alberta Employment, Immigration & Industry
Address		8 <sup>th</sup> Floor, 10808-99 Ave. Edmonton, AB - T5K 0G5
Contact Person (s)	Name:	Yan Lau
	Title:	Senior Manager
	Phone #	780-415-0595
	Fax:	780-422-0014
	Email:	<a href="mailto:yan.lau@gov.ab.ca">yan.lau@gov.ab.ca</a>
Web site		<a href="http://employment.alberta.ca/cps/rde/xchg/hre/hs.xsl/563.html">http://employment.alberta.ca/cps/rde/xchg/hre/hs.xsl/563.html</a>
Referenced Diving Legislation:		Occupational Health & Safety Regulation Part 31 Diving Operations
Updated to		2006
Web site referencing diving legislation		<a href="http://www.employment.alberta.ca/cps/rde/xchg/hre/hs.xsl/1359.html?search-phrase=Part+31&amp;include-docs=on&amp;search-section=WHS%2FPUB">http://www.employment.alberta.ca/cps/rde/xchg/hre/hs.xsl/1359.html?search-phrase=Part+31&amp;include-docs=on&amp;search-section=WHS%2FPUB</a>
Referenced Diving Standards:		Standard Section
Z275.1 Hyperbaric Chambers	Adopted <input checked="" type="checkbox"/> Referenced <input type="checkbox"/>	CSA Standard CAN/CSA-Z275.1-93 Hyperbaric Facilities
Z275.2 Diving Operations	Adopted <input checked="" type="checkbox"/> Referenced <input type="checkbox"/>	CSA Standard CAN/CSA-Z275.2-04 Occupational Safety Code for Diving Operations
Z275.4 Competency Requirements	Adopted <input checked="" type="checkbox"/> Referenced <input type="checkbox"/>	CSA Standard CAN/CSA-Z275.4-02 Competency Standard for Diving Operations
Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	As Required by CSA Z275.4
Other Standards Referenced		N/A

Enforcement		Alberta inspectors generally only respond to complaints or incidents. Experienced diving inspectors are not employed within the province. Employers are required to comply with regulatory requirements and must show Due Diligence. Non-compliance - Possible site closure, financial penalty, prosecution.
Diving Medical	Required Yes	Employers are required to ensure that commercial diving medicals are conducted in accordance with CSA Z275.2, Occupational Safety Code for Diving Operations.
<b>B.C. Diving Overview</b>		
Department (s)	WorksafeBC (Worker's Compensation Board of BC) Certification Services	
Address	6951 Westminster Highway Richmond, BC - V7C 1C6	
Contact Person (s)	Name: Title: Phone # Fax: Email:	Wayne Bingham Manager 604-276-3090 604-279-7494 <a href="mailto:Wayne.Bingham@worksafebc.com">Wayne.Bingham@worksafebc.com</a>
Web site	<a href="http://www.worksafebc.com">http://www.worksafebc.com</a> <a href="http://www2.worksafebc.com/Publications/OHSRegulation/GuidelinePart24.asp#ContentsPart24">http://www2.worksafebc.com/Publications/OHSRegulation/GuidelinePart24.asp#ContentsPart24</a>	
Referenced Diving Legislation:	Section 24 Occupational Health & Safety Regulation	
Updated to	2007	
Web site referencing diving legislation	<a href="http://www2.worksafebc.com/publications/OHSRegulation/Part24.asp">http://www2.worksafebc.com/publications/OHSRegulation/Part24.asp</a>	
Referenced Diving Standards:	Standard Section	
Z275.1 Hyperbaric Chambers	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	OH&S Regulation 24.25 Hyperbaric Chambers is not specific to CSA Z275.1 but states that "chambers must conform to standards acceptable to the board". The Guideline is mute but it would be expected that Z275.1 Hyperbaric Facilities would be complied with.
Z275.2 Diving Operations	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	WorksafeBC has developed specific commercial diving regulations for British Columbia. These can be found in Section 24 of the Regulation and are enforced throughout the province by WorksafeBC officers. Failure to comply with the Regulation requirements may result in closure of the diving operation, a financial sanction, prosecution or all of the above.
Z275.4 Competency Requirements	Adopted <input checked="" type="checkbox"/> Referenced <input type="checkbox"/>	OH&S Regulation 24.13 references CSA Z275.4 -97 and not the current standard. The Guideline states that the current Z275.4-02 may be complied with as an alternative to Z275.4-97. The competency standard is rigidly enforced throughout the province.

Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	As Required by CSA Z275.4
Other Standards Referenced		N/A
Enforcement	Required	Proactive - Non-compliance - Possible site closure, financial penalty, prosecution.
Diving Medical	Yes <input checked="" type="checkbox"/>  No	Note. Worksafe BC has developed a WorksafeBC Guideline which can be found on the OH&S Regulation page of the web-site. Section 24 is specific to commercial diving operations and includes Guidelines for many items such as Notice of Project, Medical certification, Training, Diver Competency, Dive Tables etc.

<b>Manitoba Diving Overview</b>		
Government	Manitoba Labour & Immigration	
Department (s)	Workplace Safety & Health	
Address	200-401 York Ave. Winnipeg Manitoba R3C 0P8	
Contact Person (s)	Name: Title: Phone: Fax: e-mail:	Scott Bodnarchuk Senior Health & Safety Officer 204-945-5003 204-949-4556 <a href="mailto:sbodnarchu@gov.mb.ca">sbodnarchu@gov.mb.ca</a>
Web site	<a href="http://www.gov.mb.ca/labour/safety/contactus.html">http://www.gov.mb.ca/labour/safety/contactus.html</a>	
Referencing Diving Legislation:	Part 43 Workplace Safety & Health Regulation	
Updated to	2007	
Web site referencing diving legislation	<a href="http://www.gov.mb.ca/labour/safety/pdf/regparts/part43.pdf">http://www.gov.mb.ca/labour/safety/pdf/regparts/part43.pdf</a>	
Referenced Diving Standards:	Standard Section	
Z275.1 Hyperbaric Chambers	Adopted <input type="checkbox"/>  Referenced <input checked="" type="checkbox"/>	As Referenced in CSA Z275.2
Z275.2 Diving Operations	Adopted <input checked="" type="checkbox"/>  Referenced <input type="checkbox"/>	This new regulation adopts Z275.2-04 in its entirety

Z275.4 Competency Requirement	Adopted <input checked="" type="checkbox"/> Referenced <input type="checkbox"/>	This new regulation adopts Z275.4-02 in its entirety – Recognizes DCBC certification.
Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input checked="" type="checkbox"/>	Referenced in Z275.4
Other Standards Referenced		No other standards referenced.
Enforcement		Regulations are enforced. Reactive – Non-compliance - Possible site closure, financial penalty, prosecution.
Diving Medical	Required Yes	CSA Z275.2 commercial diving medical requirements are under review by the province and significant changes may be forthcoming.

<b>New Brunswick Diving Overview</b>		
Government	New Brunswick	
Department (s)	Workplace Health & Safety Compensation Commission	
Address	1 Portland Street P.O. Box 160 Saint John NB E2L 3X9	
Contact Person (s)	Name: Title: Phone # Fax: Email:	Richard Blais Chief Compliance Officer (506) 632 – 2819 / 1 800 222-9775 N/A <a href="mailto:blaisr@whscc.nb.ca">blaisr@whscc.nb.ca</a>
Web site	<a href="http://www.whscc.nb.ca">www.whscc.nb.ca</a>	
Referenced Diving Legislation:	Occupational Health & Safety Act - General Regulations 91/191, Part XX – sections 299 - 342 “Underwater Diving Operations”	
Updated to	November 13, 2004	
Web site referencing diving legislation	<a href="http://www.gnb.ca/0062//regs/91-191.htm">http://www.gnb.ca/0062//regs/91-191.htm</a>	
Referenced Diving Standards:	Standard Section	
Z275.1 Hyprbaric Chambers	Adopted <input type="checkbox"/> Referenced <input checked="" type="checkbox"/>	Referenced for Hyperbaric Chambers and Diving Systems

Z275.2 Diving Operations	Adopted <input type="checkbox"/> Referenced <input checked="" type="checkbox"/>	Part XX, of the provincial Occupational Health & Safety Act - Underwater Diving regulations reference clause 3.8 Breathing Mixtures.
Z275.4 Competency Requirement	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	Z275.4 not mentioned. S. 304.1 of Regulation states; “An employer shall obtain from a diver and retain during the diver’s employment, documentary evidence that the diver has successfully completed an appropriate diver training course or has appropriate training and experience with respect to the dive being contemplated.”
Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A
Other Standards		N/A
Enforcement		Reactive – No Notification Required – 25 Inspectors – No Dive Reg Training Non-compliance – Possible site closure, financial penalty, prosecution. -
Diving Medical	Yes <input checked="" type="checkbox"/> Required No	Every two years.

<b>Newfoundland\Labrador Diving Overview</b>	
Government	Newfoundland and Labrador
Department (s)	Department of Government Services, Occupational Health and Safety
Address	P.O.Box 8700 St. John’s, NL A1B 4J6
Contact Person (s) Name: Title: Phone # Fax: Email:	Craig Allen Health & Safety Inspector (709) 637-2946 – Fax (709) 729-3445 <a href="mailto:CAllen@gov.nl.ca">CAllen@gov.nl.ca</a>
Web site	<a href="http://www.gs.gov.nl.ca">www.gs.gov.nl.ca</a>
Referenced Diving Legislation:	Occupational Health and Safety Act , Section 187.1 Diving standards
Updated to	December 05, 2005 – Proposed Amendment Draft 2007
Web site referencing diving legislation	<a href="http://www.hoa.gov.nl.ca/hoa/regulations/rc961165.htm">www.hoa.gov.nl.ca/hoa/regulations/rc961165.htm</a>
Referenced Diving Standards:	Standard Section

Z275.1 Hyperbaric Chambers	Adopted <input type="checkbox"/> Referenced X	Referenced as Included in CSA Z275.2.
Z275.2 Diving Operations	Adopted X Referenced <input type="checkbox"/>	Z275.2 – 04 is adopted in its entirety as required by 110/05 NFLD. OHS Regulation
Z275.4 Competency Requirements	Adopted X Referenced <input type="checkbox"/>	Z275.4-02 is adopted with the following modifications: <i>(1.1) Notwithstanding paragraph (1)(a), the following modifications to CAN/ CSA -Z275.4-02 “Competency Standard for Diving Operations” apply to seafood harvesting and aquaculture diving operations:</i>  <i>(a) clause 7, SCUBA Supervisor (Restricted and Unrestricted) is struck and the following substituted:</i> <i>(i) Individuals who have successfully completed a five-day Surface Safety Attendant’s course approved by the Workplace Health, Safety and Compensation Commission may supervise seafood harvesting and aquaculture diving operations.</i>
Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A
Other Standards		N/A
Enforcement		Proactive - 25 Inspectors – Non-compliance - Possible site closure, financial penalty, prosecution.
Diving Medical	Yes Required No	Every two years to age 39 – annual thereafter or as determined by physician. Medical certification at dive site. – As required by Z275.2-04 s. 3.2.1.

<b>N.W.T Diving Overview</b>	
Government	Workers Compensation Board Northwest Territories & Nunavut
Department (s)	Prevention Services Division
Address	5022 49 <sup>th</sup> Street 5 <sup>th</sup> Floor, Centre Square Tower Box 8888 Yellowknife, NT X1A 2R3
Contact Person (s)	Name: Bruce Graney Title: Acting Chief Safety Officer Phone: (867)-669-4403 - (867) 920-3888 - 1-800-661-0792 Fax : (867)-873-0262 e-mail: <a href="mailto:bruceg@wcb.nt.ca">bruceg@wcb.nt.ca</a>
Web site	<a href="http://www.wcb.nt.ca/your_wcb/contact_us.html">http://www.wcb.nt.ca/your_wcb/contact_us.html</a>

Referencing Diving Legislation:		Section 30 Diving Operations
Updated to		1997
Web site referencing diving legislation		<a href="http://www.wcb.nt.ca/your_wcb/pdf/legislation/GeneralSafety4.pdf">http://www.wcb.nt.ca/your_wcb/pdf/legislation/GeneralSafety4.pdf</a>
Referenced Diving Standards:		Standard Section
Z275.1 Hyperbaric Chambers	Adopted <input type="checkbox"/> Referenced X	As Required by CSA Z275.2
Z275.2 Diving Operations	Adopted X Referenced <input type="checkbox"/>	CSA Standard CAN/CSA-Z275.2-92 Occupational Safety Code for Diving Operations
Z275.4 Competency Requirement	Adopted X Referenced <input type="checkbox"/>	CSA Standard CAN/CSA-Z275.4-97 Competency Standard for Diving Operations
Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A
Other Standards		N/A
Enforcement		No diving inspectors presently employed.- Non-compliance - Possible site closure, financial penalty, prosecution.
Diving Medical	Yes	In accordance with CSA Z275.2

<b>Nova Scotia Diving Overview</b>	
Government	Nova Scotia
Department (s)	Nova Scotia Department of Environment and Labour - Occupational Health & Safety Division
Address	P.O. Box 697 Halifax, Nova Scotia, B3J 2T8
Contact Person (s)	Name: Sergio Gregualdo Title: Policy Officer Phone: 902-424 - 1724 Fax: 902-424-5640 Email: <a href="mailto:greguoss@gov.ns.ca">greguoss@gov.ns.ca</a>
Web site	<a href="http://www.gov.ns.ca/enla">www.gov.ns.ca/enla</a>

Referenced Diving Legislation:		Nova Scotia has drafted their own diving regulations: Occupational Diving Regulations which are referenced under section 82 of their Occupational Health & Safety Act. – N.S. Reg. 174/2005 The new regulations were announced September 9, 2005 and came into effect May 1, 2006. – Consultation meetings have been held in Dec 07 with stakeholders to discuss any issues resulting from promulgation of Diving Regulation.
Updated to		Promulgated May 1, 2006
Web site referencing diving legislation		<a href="http://www.canlii.org/ns/laws/regu/2005r.174/20061123/whole.html">www.canlii.org/ns/laws/regu/2005r.174/20061123/whole.html</a>
Referenced Diving Standards:		Standard Section
Z275.1 Hyperbaric Chambers	Adopted <input type="checkbox"/> Referenced X	As Required by Regulation 174/2005
Z275.2 Diving Operations	Adopted <input type="checkbox"/> Referenced X	Nova Scotia's Occupational Diving Regulations reference Z275.2 with respect to: Breathing Mixtures and Occupational Divers Medical Fitness Examination
Z275.4 Competency Requirements	Adopted <input type="checkbox"/> Referenced X	Section 16 Competency of diving supervisor, diver and diver's tender of Nova Scotia's Occupational Diving Regulations states in its entirety. Each diving supervisor, diver and diver's tender must meet the competency requirements set out in CSA standard Z275.4-02, Competency Standard for Diving Operations for their position and the depths and circumstances of the dive.
Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A
Other Standards		N/A
Enforcement	Yes	25 – 30 General Inspectors – Reactive Enforcement – No Diving Ops. Notice Required - Non-compliance - Possible site closure, financial penalty, prosecution.
Diving Medical	Yes X Required No	Medically fit certificate required every two years. S. 14 of Reg. Family physician can conduct medical examination in accordance with CSA Z275.2 – Diving Physician not required.

<b>Nunavut Diving Overview</b>	
Government	Workers Compensation Board Northwest Territories & Nunavut (Nunavut)
Department (s)	Prevention Services

Address		1091 Barron Building Box 669 Iqaluit Nunavut X1A 0H0
Contact Person (s)	Name: Title: Phone Fax e-mail	Neil Kuisma Chief Safety Officer 867-979-8504 - 1-877-404-4407 - 1-867-979-8500 867-979-8500 <a href="mailto:neilk@wcb.nt.ca">neilk@wcb.nt.ca</a>
Web site		<a href="http://www.wcb.nt.ca/your_wcb/contact_us.html">http://www.wcb.nt.ca/your_wcb/contact_us.html</a>
Referencing Diving Legislation:		Section 30 Diving Operations
Updated to		The diving regulations are presently under revision. - Incl.
Web site referencing diving legislation		<a href="http://www.wcb.nt.ca/news/complete%20ohs%20regs%202006.pdf">http://www.wcb.nt.ca/news/complete%20ohs%20regs%202006.pdf</a>
Referenced Diving Standards:		Standard Section
Z275.1 Hyperbaric Chambers	Adopted <input type="checkbox"/> Referenced <input checked="" type="checkbox"/>	CSA Standard CAN/CSAZ275.1-93 (R2004), <i>Hyperbaric Facilities</i> .
Z275.2 Diving Operations	Adopted <input checked="" type="checkbox"/> Referenced <input type="checkbox"/>	CSA Standard CAN/CSA-Z275.2-92 Occupational Safety Code for Diving Operations
Z275.4 Competency Requirement	Adopted <input checked="" type="checkbox"/> Referenced <input type="checkbox"/>	CSA Standard CAN/CSA-Z275.4-97 Competency Standard for Diving Operations
Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A
Other Standards		N/A
Enforcement		Non-compliance with the diving regulation may result in closure of the diving operation.
Diving Medical	Yes	In accordance with CSA Z275.2

<b>Ontario Diving Overview</b>	
Government	Ontario
Department (s)	Ministry of Labour
Address	505 University Ave. 19 <sup>th</sup> . Floor

		Toronto, ON M7A 1T7
Contact Person (s)	Name: Title: Phone # Fax: Email:	John Mitchell Provincial Diving Specialist (613) 290-4320 / (416) 326-7242 <a href="mailto:John.Mitchell@ontario.ca">John.Mitchell@ontario.ca</a>
Web site		<a href="http://www.labour.gov.on.ca">www.labour.gov.on.ca</a>
Referenced Diving Legislation:		Occupational Health & Safety Act - ONTARIO REGULATION 629/94 Amended by O. Reg. 155/04 – “DIVING OPERATIONS”
Updated to		Latest amendment took effect on June 3, 2004
Web site referencing diving legislation		<a href="http://www.search.e-laws.gov.on.ca/en/isysquery/3fed57af-1cb7-4b55-8e88-d49ece6e4268/1/frame/?search=browseStatutes&amp;context=">http://www.search.e-laws.gov.on.ca/en/isysquery/3fed57af-1cb7-4b55-8e88-d49ece6e4268/1/frame/?search=browseStatutes&amp;context=</a>
Referenced Diving Standards:		Standard Section
Z275.1 Hyperbaric Chambers	Adopted <input type="checkbox"/> Referenced <input checked="" type="checkbox"/>	Section 23(5) references CSA Standard Z275.1 – 93 “Hyperbaric Facilities” clauses 1 – 9
Z275.2 Diving Operations	Adopted <input type="checkbox"/> Referenced <input checked="" type="checkbox"/>	Part IV Breathing Mixtures of Ontario Regulation 629/94 Amended to O. Reg. 155/04 “Diving Operations” section 25(2) references Z275.2-92
Z275.4 Competency Requirement	Adopted <input checked="" type="checkbox"/> Referenced <input type="checkbox"/>	Part II Section 4.1 Duties of Employers, Constructors and Owners states in its entirety:  4.1 (1) In this section,  “Standard” means CSA Standard Z275.4-02, “Competency Standard for Diving Operations”. O. Reg. 155/04, s. 3.  (2) An employer shall ensure that all persons who participate in a diving operation are trained to a level of competency equal to or exceeding the competency requirement of the Standard that applies to the type of diving operation being participated in. O. Reg. 155/04, s. 3.  (3) For the purposes of subsection (2) and despite Clause 1.6 of the Standard, the Standard applies to scientific diving as defined in Clause 2.1 of the Standard. O. Reg. 155/04, s. 3.
Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	As Required by CSA Z275.4 – 02
Other Standards		N/A
Enforcement	Yes	Eighteen trained Diving Inspectors strategically located throughout the province - Non-compliance - Possible site closure, financial penalty, prosecution.

Diving Medical	Yes X Required No	Part V - Section 32 O.Reg. 629/94 "Diving Operations" – Every two years – Physician must be knowledgeable in diving and hyperbaric medicine. Certificate must be at dive site.
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## P.E.I. Diving Overview

Government	Prince Edward Island
Department (s)	Workers Compensation Board
Address	14 Weymouth Street Charlottetown, PEI, C1A 7L7
Contact Person (s)	Name: Ian Rodd Title: Manager - Supervising Safety Officer Phone #: (902) 368-5575 – fax(902) 368-5705 Fax: Email: <a href="mailto:ihrodd@wcb.pe.ca">ihrodd@wcb.pe.ca</a>
Web site	<a href="http://www.gov.pe.ca/infopei/index.php3?number=14078&amp;lang=E">http://www.gov.pe.ca/infopei/index.php3?number=14078&amp;lang=E</a>
Referenced Diving Legislation:	Occupational Health & Safety Act - General Regulations, Part 48 Underwater Diving Operations
Updated to	November 13, 2004
Web site referencing diving legislation	<a href="http://www.gov.pe.ca/law/regulations/pdf/O&amp;01-01G.pdf">http://www.gov.pe.ca/law/regulations/pdf/O&amp;01-01G.pdf</a>

Referenced Diving Standards:	Standard Section	
Z275.1 Hyprbaric Chambers	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A
Z275.2 Diving Operations	Adopted <input checked="" type="checkbox"/> Referenced <input type="checkbox"/>	PEI's Occupational Health & Safety Act - Part 48 Underwater Diving Operations states "The employer shall ensure that all underwater diving operations meet the CSA Standard Z275.2, "Occupational Safety Code for Diving Operations".
Z275.4 Competency Requirements	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	Recognize Z 275.4 and DCBC certification. – Will be included in upcoming amendment to OHS Regulation
Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A
Other Standards Referenced		
Enforcement		Reactive only – Four Inspectors for all work sectors - Non-compliance - Possible site closure, financial penalty, prosecution.

Diving Medical	Yes X Required No	Section 3.2.1 Z275.2
<b>Quebec Diving Overview</b>		
Government	Quebec	
Department (s)	CSST - Construction Prevention - Inspection	
Address	524 rue Bourdages Bureau 350 CP 1200, succursale Terminous Quebec, Qc. G14 7E2	
Contact Person (s)	Name: Title: Phone: Fax: Email:	Claude Rochan, P.Eng. Specialist Accident Prevention and Investigation (418) 266 – 4699 – ext 2031 (418) 266 – 4698 <a href="mailto:Claude.rochan@csst.qc.ca">Claude.rochan@csst.qc.ca</a>
Web site	<a href="http://www.csst.qc.ca/portail/fr/">http://www.csst.qc.ca/portail/fr/</a>	
Referenced Diving Legislation:	Section 51 of the Quebec Occupational Health & Safety Act used and CSA Standards Z275.2 and Z275.4 referenced (Old Section 3.17 Safety Code Construction Industry Not Referenced.)	
Updated to	Under Review and Consultation	
Web site referencing proposed diving legislation	<a href="http://www2.publicationsduquebec.gouv.qc.ca/dynamicSearch/telecharge.php?type=2&amp;file=/S_2_1/S2_1.html">http://www2.publicationsduquebec.gouv.qc.ca/dynamicSearch/telecharge.php?type=2&amp;file=/S_2_1/S2_1.html</a>	
Referenced Diving Standards:	Standard Section	
Z275.1 Hyperbaric Chambers	Adopted <input type="checkbox"/> Referenced <input checked="" type="checkbox"/>	Referenced Using Section 51 of the QC Occupational Health and Safety Act as Included in CSA Z275.2.
Z275.2 Diving Operations	Adopted <input type="checkbox"/> Referenced <input checked="" type="checkbox"/>	Referenced Using Section 51 of the QC Occupational Health and Safety Act.
Z275.4 Competency Requirement	Adopted <input type="checkbox"/> Referenced <input checked="" type="checkbox"/>	Referenced Using Section 51 of the QC Occupational Health and Safety Act.
Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	Proposed
Other Standards		

Enforcement		Reactive - No Notice of Diving Operation Required - Non-compliance - Possible site closure, financial penalty, prosecution.
Diving Medical	Yes X Required No	As per CSA Z275.2-04 – Frequency As Required by Examining Physician – Proposed Changes in 2008

<b>Saskatchewan Diving Overview</b>		
Government	Government of Saskatchewan	
Department (s)	Advanced Education, Employment & Labour Occupational Health & Safety Division	
Address	400-1870 Albert St. Regina, SK S4P 4W1	
Contact Person (s)	Name: Title: Phone: Fax: e-mail:	Bob Ross Manager of Safety 306-787-4134 - 306-787-4496 306-787-2208 <a href="mailto:bross@lab.gov.sk.ca">bross@lab.gov.sk.ca</a>
Web site	<a href="http://www.whs@gov.ab.ca">www.whs@gov.ab.ca</a>	
Referencing Diving Legislation:	Occupational Health & Safety Regulation Part 20 Diving Operations (Sections 283-301)	
Updated to	2006	
Web site referencing diving legislation	<a href="http://www.qp.gov.sk.ca/documents/English/Regulations/Regulations/O1-1R1.pdf">http://www.qp.gov.sk.ca/documents/English/Regulations/Regulations/O1-1R1.pdf</a>	
Referenced Diving Standards:		Standard Section
Z275.1 Hyperbaric Chamber	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A
Z275.2 Diving Operations	Adopted <input type="checkbox"/> Referenced <input checked="" type="checkbox"/>	As Referenced for diving medicals
Z275.4 Competency Requirement	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	No competency requirement for a diver. A diver is defined as “a competent worker or competent self-employed person who performs underwater work”. A dive supervisor is defined as “a competent person who has complete responsibility for a diving operation, including responsibility for the health and safety of all diving personnel.” An employer shall ensure that only competent workers are required or permitted to perform underwater diving operations. An employer shall ensure that a diving operation is conducted under the direction of a diving supervisor; and give to the diving supervisor all the information and resources necessary to protect the health and safety of every diver under the supervisor’s direction.

Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A
Other Standards Referenced		An employer shall ensure that all diving operations, repetitive dives and treatments of divers are carried out in strict accordance with decompression tables and procedures published or approved by the Defence and Civil Institute of Environmental Medicine (Canada) or another approved agency.
Enforcement		Reactive – Non-compliance - Possible site closure, financial penalty, prosecution
Diving Medical	Yes X Required No	A diver must have a comprehensive medical examination conducted by a physician at least once every 12 months in accordance with the criteria set forth in Canadian Standards Association Z275.2-92 Occupational Safety Code for Diving Operations.  No diver shall dive unless the diver has been certified by the physician to be free of any medical condition that would make unsafe the performance of the type of dive to be carried out.

<b>Yukon Diving Overview</b>		
Government	Yukon Workers' Compensation Health & Safety Board	
Department (s)	Occupational Health and Safety	
Address	401 Strickland St. Whitehorse, Yukon Y1A 5N8 1-800-661-0443 867-667-5645 Fax 867-393-6279	
Contact Person (s)	Name: Title: Phone: Fax : e-mail:	Ossie Venasse Safety Officer 867-334-2002 867-393-6279 <a href="mailto:ovenasse@gov.yk.ca">ovenasse@gov.yk.ca</a>
Web site	<a href="mailto:worksafe@gov.yk.ca">worksafe@gov.yk.ca</a>	
Referencing Diving Legislation:		
Updated to		
Web site referencing diving legislation	No commercial diving legislation referenced.	
Referenced Diving Standards:		
Z275.1 Hyperbaric Chambers	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A

Z275.2 Diving Operations	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A
Z275.4 Competency Requirement	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A
Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A
Other Standards Referenced		N/A
Enforcement		N/A
Diving Medical	Required	N/A

<b>Alberta Blasting Overview</b>	
Government	Alberta Employment, Immigration & Industry
Department (s)	Workplace Health & Safety Policy & Legislation
Address	8 <sup>th</sup> Floor, 10808-99 Ave, Edmonton AB T5K 0G5
Contact Person (s)	Name: Yan Lau Title: Senior Manager Phone: 780-415-0595 Fax: 780-422-0014 e-mail: <a href="mailto:yan.lau@gov.ab.ca">yan.lau@gov.ab.ca</a>
Web site	<a href="http://employment.alberta.ca/cps/rde/xchg/hre/hs.xsl/563.html">http://employment.alberta.ca/cps/rde/xchg/hre/hs.xsl/563.html</a>
Referencing Explosive Legislation:	Occupational Health & Safety Regulation Part 33 Explosives
Updated to	2006
Web site referencing explosive legislation	<a href="http://employment.alberta.ca/documents/WHS/WHS-PUB_OHSC-1.pdf">http://employment.alberta.ca/documents/WHS/WHS-PUB_OHSC-1.pdf</a>
Referenced Explosive Standards:	No
Blasting or Explosive certification required?	Yes <input checked="" type="checkbox"/> No
Is blaster or firm or other certified?	Blaster: Yes
Who certifies blasters or firm?	The employer designates the blaster. The blaster is issued a permit by Workplace Health & Safety

Previous blasting training required prior to certification?	Blaster can qualify and be issued a permit by completing an approved course or having 6 months experience and be recommended by his employer.
Minimum age of Blaster?	18 years
Specified Blasting Supervisor required?	No
Special requirements for Blasting Supervisor?	Supervisor must be knowledgeable in type of blasting being conducted and in accordance with permit issued.
Medical qualifications required?	No
Types of initiation permitted?	No restrictions but in accordance with permit issued.
Underwater blasting permitted?	No restrictions but permit would come under "other" classification.
Special requirements/certification for underwater blasting?	No special requirements but in accordance with permit.
Military blasting experience accepted?	Yes. Permits have previously been issued to military personnel. Permit would restrict blaster to specific EOD use.
Describe procedures/results if explosives violations observed.	Random inspections of the worksite would generally not be conducted. Inspectors would respond to complaints and incidents or target firms with a poor safety record or high claims costs. Action for code violation would be similar to other violations.
Does agency have explosive inspectors?	No
Explosive Act (Canada) regulations enforced?	Yes, by Federal Explosive Inspectors who would be assisted by Health & Safety Inspectors as required.
Special explosive permits required?	Special permits, including UXO/Legacy site clearance operations, would be reviewed and issued under the "Other" category.

<b>B.C. Blasting Overview</b>	
Government	WorksafeBC (Worker's Compensation Board of British Columbia)
Department (s)	Certification Services
Address	6951 Westminster Highway Richmond B.C.
Contact Person (s)	Name: Wayne Bingham Title: Manager Phone #: 604-233-4021 Fax: 604-279-7494 e-mail: <a href="mailto:Wayne.Bingham@worksafebc.com">Wayne.Bingham@worksafebc.com</a>
Web site	<a href="http://www.worksafebc.com">www.worksafebc.com</a>
Referencing Explosive Legislation:	Occupational Health & Safety Regulation - Part 21
Updated to	May 2006

Web site referencing explosive legislation	<a href="http://www2.worksafebc.com/publications/OHSRegulation/Part21.asp">http://www2.worksafebc.com/publications/OHSRegulation/Part21.asp</a>
Referenced Explosive Standards:	No
Blasting or Explosive certification required?	Yes
Is blaster or firm or other certified?	Blaster must hold a valid blaster's certificate issued by the Board or acceptable to the board.
Who certifies blasters or firm?	Worksafe BC
Previous blasting training required prior to certification?	Yes. The candidate for a blaster's certificate must forward written proof to the examining officer that the candidate has had at least 6 months experience in blasting as an assistant to a blaster and/or the candidates character, qualifications and experience would make the candidate competent to handle explosives.
Minimum age of Blaster?	18 years
Specified Blasting Supervisor required?	Yes. All work within the blasting area must be done under the authorization of the designated blaster of record responsible for that area.
Special requirements for Blasting Supervisor?	Supervisor must be knowledgeable in type of blasting being conducted and in accordance with permit issued.
Medical qualifications required?	The blaster must "be physically capable of safely carrying out the duties of a blaster.
Types of initiation permitted?	No restrictions but in accordance with type of certification issued by the board. Blasters can be examined for various levels of certification.
Underwater blasting permitted?	No restrictions.
Special requirements/certification for underwater blasting?	No special requirements for underwater blasting operations but such operations must be in accordance with the Regulation and only then if the work is involved within the scope of that certificate. Occupational diving operations must be conducted in accordance with Section 24 of the Regulation.
Military blasting experience accepted?	Yes. Permits have previously been issued to military personnel. Permit would be classified as Restricted and may limit the blaster to UXO/Legacy blasting operations only.
Describe procedures/results if explosives violations observed.	The blaster's certificate may be seized and the blaster suspended from blasting for a period of time as determined by the board. The Board may apply a financial sanction and/or prosecute the blaster and his employer.
Does agency have explosive inspectors?	Yes. All safety and health officers can inspect a blast site and they may be assisted by other officers knowledgeable in blasting operations.
Explosive Act (Canada) regulations enforced?	Yes, by Federal Explosive Inspectors, RCMP officers and Board personnel as required.
Above regulations enforced by whom?	See above.
Special explosive permits required?	No. Restricted tickets may be issued for specific purposes.

## Manitoba Blasting Overview

Government	Government Of Manitoba
Department	Manitoba Labour, Workplace Safety & Health Division
Address	200-401 York Ave. Winnipeg, MA R3C 0P8
Contact Person(s)	Name: Bill Comaskey Title: Director, Mine Safety Branch Phone: 204-945-0848 Fax: 204-945-4556 e-mail: <a href="mailto:bill.comaskey@gov.mb.ca">bill.comaskey@gov.mb.ca</a>
Web site	<a href="http://www.gov.mb.ca/labour/safety/contactus.html">http://www.gov.mb.ca/labour/safety/contactus.html</a>
Referencing Explosive Legislation:	General Blasting Regulations Part 34.
Updated to	Unknown
Web site referencing explosive legislation	<a href="http://www.gov.mb.ca/labour/safety/pdf/regparts/part34.pdf">http://www.gov.mb.ca/labour/safety/pdf/regparts/part34.pdf</a>
Referenced Explosive Standards:	Explosives Act Canada
Blasting or Explosive certification required?	Yes
Is blaster or firm or other certified?	The blaster.
Who certifies blasters or firm?	The Director, Workplace Safety & Health Division
Previous blasting training required prior to certification?	The director may establish blaster safety training programs and examinations for the different classes of blaster's certificates established
Minimum age of Blaster?	18 Years
Specified Blasting Supervisor required?	An employer must not authorize or permit a charge to be prepared, fixed or fired, or a misfire to be handled, by anyone other than a blaster or a person who is working under the direct personal supervision of a blaster.
Special requirements for Blasting Supervisor?	No.
Medical qualifications required?	No.
Types of initiation permitted?	No restrictions. In accordance with issued certificate.
Underwater blasting permitted?	Yes.
Special requirements/certification for underwater blasting?	It is suggested that the Mine Safety Branch be contacted regarding all underwater explosive work as terms and conditions may be imposed on a blaster's certificate.
Military blasting experience accepted?	Military blasting experience may be acceptable and a class established by the director. See above regarding contact with the Mine Safety Branch.
Describe procedures/results if explosives violations observed.	Suspension of blaster's certificate, site closure and financial sanctions imposed. .
Does agency have explosive inspectors?	Division Safety & Health Officers will inspect all

	blasting operations as necessary.
Explosive Act (Canada) regulations enforced?	Yes.
Special explosive permits required?	A special class or permit may be established by the director.

## New Brunswick Blasting Overview

Government	Workplace Health, Safety and Compensation Commission of New Brunswick
Department	Occupational Health & Safety Division
Address	1 Portland St. PO Box 160 St. John NB E2L 3X9 506-632-2200 1-800-222-9775
Contact Person	Name: Roland Roy Title: Engineer Phone: 506-738-4189 Fax: 506-738-4099 e-mail: <a href="mailto:royr@whscc.nb.ca">royr@whscc.nb.ca</a>
Web site	<a href="http://www.whscc.nb.ca">www.whscc.nb.ca</a>
Referencing Explosive Legislation:	NB Regulation 91-191 Part XII Explosives 146-179
Updated to	1991
Web site referencing legislation	<a href="http://www.gnb.ca/0062/PDF-regs/91-191.pdf">http://www.gnb.ca/0062/PDF-regs/91-191.pdf</a>
Referenced Explosive Standards:	No
Blasting or Explosive certification required?	An employer shall ensure that a blasting operation is conducted by a blaster who holds an appropriate certificate of qualification issued under the <i>Apprenticeship and Occupational Certification Act</i> for the work involved.
Is blaster or firm or other certified?	Blaster.
Who certifies blasters or firm?	The blaster is issued a certificate under the <i>Apprenticeship and Occupational Certification Act</i> .
Previous blasting training required prior to certification?	Yes. In accordance with the <i>Apprenticeship and Occupational Certification Act</i> .
Minimum age of Blaster?	No specific age under Part XII Explosives. There may be an age limitation under the <i>Apprenticeship and Occupational Certification Act</i> .
Specified Blasting Supervisor required?	Where more than one blaster is involved in a blasting operation, an employer shall designate one of the blasters to supervise
Special requirements for Blasting Supervisor?	No person other than a blaster with the appropriate certificate of qualification shall conduct or supervise a blasting operation
Medical qualifications required?	No
Types of initiation permitted?	No restrictions.

Underwater blasting permitted?	Yes
Special requirements/certification for underwater blasting?	Where any explosive other than black powder is to be used <i>underwater</i> , an employer shall establish a code of practice for the safe use of the explosive.
Military blasting experience accepted?	Military experience may be considered under the <i>Apprenticeship and Occupational Certification Act</i>
Describe procedures/results if explosives violations observed.	Site closure, financial sanctions and/or prosecution.
Does agency have explosive inspectors?	No but other agencies may inspect blast sites for compliance.
Explosive Act (Canada) regulations enforced?	Yes.
Special explosive permits required?	No.

### Newfoundland\Labrador Blasting Overview

Government	Government Of Nfld. & Labrador
Department (s)	Department of Government Services Occupational Health & Safety Branch
Address	PO Box 8700 Confederation Bldg. St. Johns NL N1A 4J6
Contact Person (s)	Name: Reg Bennett Title: Director Phone: 709-729-3275 Fax: 709-729-3445 e-mail: <a href="mailto:RBennett@gov.nl.ca">RBennett@gov.nl.ca</a>
Web site	<a href="http://www.gs.gov.nl.ca/ohs/">http://www.gs.gov.nl.ca/ohs/</a>
Referencing Explosive Legislation:	OH&S Regulation Sections 155-166 EXPLOSIVES
Updated to	4 February, 2008
Web site referencing explosive legislation	<a href="http://www.assembly.nl.ca/legislation/sr/regulations/rc961165.htm#155">http://www.assembly.nl.ca/legislation/sr/regulations/rc961165.htm#155</a>
Referenced Explosive Standards:	Explosives Act Canada
Blasting or Explosive certification required?	Yes
Is blaster or firm or other certified?	A blaster's safety certificate is issued by the division.
Who certifies blasters or firm?	Department of Industrial Training & Apprenticeship
Previous blasting training required prior to certification?	The blaster is required to attend a blaster's school acceptable to the Asst. Deputy Minister
Minimum age of Blaster?	19 Years
Specified Blasting Supervisor required?	No. Blaster has full authority
Special requirements for Blasting Supervisor?	No
Medical qualifications required?	No. Blaster must be fit.
Types of initiation permitted?	In accordance with certificate.
Underwater blasting permitted?	Yes.
Special requirements/certification for underwater blasting?	No special requirements for blasting but diver must meet minimum requirements of CSA Z275.4, Competency

	Standard for Diving Operations.
Military blasting experience accepted?	Yes. Blasting certificate would be issue based upon military blasting experience
Describe procedures/results if explosives violations observed.	Suspension or cancellation of certificate
Does agency have explosive inspectors?	Yes.
Explosive Act (Canada) regulations enforced?	Yes, by Federal Explosive Inspectors who would be assisted by Health & Safety Inspectors as required.
Special explosive permits required?	No

<b>Nova Scotia Blasting Overview</b>	
Government	Government of Nova Scotia
Department (S)	Environment & Labour Occupational Health & Safety Division
Address	5151 Terminal Rd. Halifax, NS B3J 2T8
Contact Person (S)	Name: Pleman Woodland Title: Mine Engineer Phone: 902-424-0451 Fax: 902-424-5640 E-Mail: <a href="mailto:Woodlapg@Gov.Ns.Ca">Woodlapg@Gov.Ns.Ca</a>
Web Site	<a href="http://www.gov.ns.ca/lwd/legislation/">http://www.gov.ns.ca/lwd/legislation/</a>
Referencing Explosive Legislation:	Blasting Safety Regulations O.I.C. 2008-65 (February 26, 2008, effective April 1, 2008), N.S. Reg. 89/2008
Updated To	April, 2008
Web Site Referencing Explosive Legislation	<a href="http://www.gov.ns.ca/just/regulations/regs/ohsblasting.htm">http://www.gov.ns.ca/just/regulations/regs/ohsblasting.htm</a>
Referenced Explosive Standards:	Explosives Act Canada  Note. Significant changes may be forthcoming to the general blasting regulation and certification procedures in nova scotia. It is recommended that you contact the nova scotia occupational health & safety division for further information prior to commencement of blasting activates after 1 april, 2008.
Blasting Or Explosive Certification Required?	Yes
Is Blaster Or Firm Or Other Certified?	The Blaster.
Who Certifies Blasters Or Firm?	The blaster is licensed by the Occupational Health & Safety Division upon approval from the blasting board of examiners. Examinations may be required.
Previous Blasting Training Required Prior To	Yes. Specialized courses approved by the board.

Certification?	
Minimum Age Of Blaster?	19 Years
Specified Blasting Supervisor Required?	All blasting shall be under the direct supervision of a blaster. When there is more than one blaster the employer shall designate one blaster who has principal responsibility for the blast.
Special Requirements For Blasting Supervisor?	No
Medical Qualifications Required?	No
Types Of Initiation Permitted?	No Restrictions. In Accordance With License.
Underwater Blasting Permitted?	Yes. The employer shall ensure that a written code of practice to augment these regulations is developed for the use and handling of explosives underwater.
Special Requirements/Certification For Underwater Blasting?	Yes. Underwater blasting (diving) is regarded as a unique blasting operation. A written code of practice must be developed to augment the regulation. Special application restricted certificates may be issued.
Military Blasting Experience Accepted?	Yes. Previous blasting experience would be reviewed by the Board.
Describe Procedures/Results If Explosives Violations Observed.	Suspension of blaster's certificate or prosecution.
Does Agency Have Explosive Inspectors?	Yes.
Explosive Act (Canada) Regulations Enforced?	Yes, By Federal Explosive Inspectors, RCMP Etc.
Special Explosive Permits Required?	Yes. Special application restricted certificate which includes underwater diving.

<b>N.W.T. &amp; Nunavut Blasting Overview</b>	
Government	Worker's Compensation Board of Northwest Territories and Nunavut
Department (s)	Mine Safety
Address	5022 49 <sup>th</sup> Street 5 <sup>th</sup> Floor, Centre Square Tower Box 8888 Yellowknife, NT X1A 2R3
Contact Person (s)	Name: Peter Bengts Title: Chief Inspector of Mines (Yellowknife NWT) Phone: 867-669-4412 - (867) 920-3888 - 1-800-661-0792 Fax : 867-873-4596 e-mail: <a href="mailto:peterb@wcb.nt.ca">peterb@wcb.nt.ca</a>
Web site	<a href="http://www.wcb.nt.ca/your_wcb/legislation.html">http://www.wcb.nt.ca/your_wcb/legislation.html</a>
Referencing Explosive Legislation:	Consolidation Of Explosives Use Act R.S.N.W.T. 1988,c.E-10 - As Amended By S.N.W.T. 1996,c.9 In force April 16, 1996 S.N.W.T. 1998,c.5
Updated to	1998

Web site referencing explosive legislation	<a href="http://www.wcb.nt.ca/your_wcb/legislation.html">http://www.wcb.nt.ca/your_wcb/legislation.html</a>
Referenced Explosive Standards:	Explosives Act Canada
Blasting or Explosive certification required?	Blaster requires an Explosive Handling Permit
Is blaster or firm or other certified?	Blaster is certified.
Who certifies blasters or firm?	The chief inspector may issue a blasting certificate to a person who has a minimum of one year's mining experience of which at least six months has been spent assisting a qualified blaster and has passed a written and oral examination .  Note: A manager may issue a provisional blasting certificate and the certificate may contain any restriction the chief inspector considers necessary. Permits and or certificates from other jurisdictions may be acceptable.
Previous blasting training required prior to certification?	A minimum of one year's mining experience of which at least six months has been spent assisting a qualified blaster.
Minimum age of Blaster?	19 Years
Specified Blasting Supervisor required?	No
Special requirements for Blasting Supervisor?	No
Medical qualifications required?	No
Types of initiation permitted?	No person shall use safety fuse, otherwise known as tape fuse, in any blasting operations at a mine. Transporting Safety fuse is not permitted.
Underwater blasting permitted?	Yes
Special requirements/certification for underwater blasting?	No
Military blasting experience accepted?	Yes if approved by the Chief Inspector.
Describe procedures/results if explosives violations observed.	Blaster may be suspended from conducting blasting activities and the blaster's permit may be suspended or cancelled. Site closure.
Does agency have explosive inspectors?	Yes. Inspectors have dual responsibility for underground mines and surface blasting operations.
Explosive Act (Canada) regulations enforced?	Yes
Above regulations enforced by whom?	Mines Inspectors
Special explosive permits required?	No

## Ontario Blasting Overview

Government or other agency responsible for explosives	Ministry Of Labour Ontario
Department (s)	Occupational Health & Safety Branch (Construction)
Address	505 University Ave. 19 <sup>th</sup> Floor Toronto, ON M7A 1T7

Contact Person (s)	Name:	Michael Chappell
	Title:	Provincial Coordinator Construction & Diving Program
	Phone:	416-326-7776
	Fax:	416-326-7242
	e-mail:	<a href="mailto:michael.chappel@ontario.ca">michael.chappel@ontario.ca</a>
Web site		<a href="http://www.labour.gov.on.ca/english/">http://www.labour.gov.on.ca/english/</a>
Referencing Explosive Legislation:		Ontario Regulation 213/91 - Sections 196-206
Updated to		2005
Web site referencing explosive legislation		<a href="http://www.e-laws.gov.on.ca/html/regs/english/elaws_regs_910213_e.htm">http://www.e-laws.gov.on.ca/html/regs/english/elaws_regs_910213_e.htm</a>
Blasting or Explosive certification required?		No. Blaster must be competent.
Is blaster or firm certified?		No
Who certifies blasters or firm?		No certification required. Blaster and/or firm must prove competency.
Previous blasting training required prior to certification?		Competency required.
Minimum age of Blaster?		Minimum age on a construction project is 18 years.
Specified Blasting Supervisor required?		If explosives are to be used on a project, the employer responsible for blasting shall designate a competent worker to be in charge of blasting operations.
Special requirements for Blasting Supervisor?		Must be competent
Medical qualifications required?		No.
Types of initiation permitted?		No restrictions
Underwater blasting permitted?		Yes.
Special requirements/certification for underwater blasting?		Competency required. Commercial diving operations must be conducted in accordance with regulatory requirements.
Describe procedures/results if explosives violations observed.		Site closure, financial penalties including individual financial penalty.
Does agency have explosive inspectors?		Not specific to the Ministry of Labour.
Explosive Act (Canada) regulations enforced?		Yes. Other agencies may be involved.
Special explosive permits required?		No.

## P.E.I. Blasting Overview

Government	Workers Compensation Board of Prince Edward Island
Department (s)	Occupational Health & Safety Division
Address	14 Weymouth St. PO Box 757 Charlottetown, PEI C1A 7L7

Contact Person (s)	Name: Title: Phone: Fax: e-mail:	Ian Rodd Manager, OH&S 902-368-5575 - 902-368-5680 902-368-5696 <a href="mailto:ihrodd@wcb.pe.ca">ihrodd@wcb.pe.ca</a>
Web site	<a href="http://www.wcb.pe.ca">www.wcb.pe.ca</a>	
Referencing Explosive Legislation:	Part 26 Explosives Occupational Health & Safety Act General Regulations	
Updated to	1980	
Web site referencing explosive legislation	<a href="http://www.gov.pe.ca/law/regulations/pdf/O&amp;01-01G.pdf">http://www.gov.pe.ca/law/regulations/pdf/O&amp;01-01G.pdf</a>	
Referenced Explosive Standards:	No	
Blasting or Explosive certification required?	No	
Is blaster or firm or other certified?	No	
Who certifies blasters or firm?	A competent person shall be appointed to be in charge of and personally present at all blasting operations, and that person shall enforce his orders and directions and shall supervise the fixing of all charges and other blasting operations.	
Previous blasting training required prior to certification?	No. Blaster must prove competency.	
Minimum age of Blaster?	Non specific.	
Specified Blasting Supervisor required?	Must be competent.	
Special requirements for Blasting Supervisor?	No.	
Medical qualifications required?	No.	
Types of initiation permitted?	Non specific.	
Underwater blasting permitted?	Yes.	
Special requirements/certification for underwater blasting?	No. Must be competent.	
Military blasting experience accepted?	Yes. Competency required.	
Describe procedures/results if explosives violations observed.	Site closure, financial penalty, prosecution.	
Does agency have explosive inspectors?	No	
Explosive Act (Canada) regulations enforced?	Explosives Act would be enforced by other agencies.	
Special explosive permits required?	No	

## Quebec Blasting Overview

Government	Commission de la santé et de la sécurité du travail du Québec (CSST) (Occupational Health and Safety Commission)
Department	Inspections

Address	1199, rue de Bleury C P 6056, Succursale < centre-ville> Montreal, P.Q., H3c 4E1
Contact Person: Name: Title: Phone: Fax: e-mail:	Roland Boivan Explosives Inspector (819) 372 – 3400 Ext 3484 (819) 372 – 3264 <a href="mailto:Roland.Boivan@csst.qc.ca">Roland.Boivan@csst.qc.ca</a>
Web site for agency	<a href="http://csst.qc.ca/portail/fr/">http://csst.qc.ca/portail/fr/</a>
Section Referencing Explosive Legislation:	Safety Code for the Construction Industry – Section 4
Updated to	February 23, 2008
Web site referencing explosive legislation	<a href="http://www.msp.gouv.qc.ca/police/police_en.asp?txtSection=loi&amp;txtNomAutreFichier=loi_regl_explosifs_en.htm">http://www.msp.gouv.qc.ca/police/police_en.asp?txtSection=loi&amp;txtNomAutreFichier=loi_regl_explosifs_en.htm</a> <a href="http://www.publicationsduquebec.gouv.qc.ca/accueil.en.html">http://www.publicationsduquebec.gouv.qc.ca/accueil.en.html</a>
Blasting or Explosive certification required?	Yes
Is blaster or firm or other certified?	To do blasting or any other work requiring the use of explosives on a construction site, a worker must hold a <u>shotfirer's</u> certificate. Since 1994, the Commission de la construction du Québec (CCQ) has been mandated by the Commission de la santé et de la sécurité du travail ( <b>CSST</b> ) to manage certification of shotfirers. There is also a specialized certificate for Seismic and mining exploration that is issued by Emploi-Quebec, who are mandated by the CSST (Comission de Santé et Sécurité au Travail) to administer the training program.
Who certifies blasters or firm?	CSST
Previous blasting training required prior to certification?	The candidate must supply written proof that his character, knowledge and experience make him competent to handle explosives and pass the written examination set by the Commission with a minimum mark of 80 %.
Minimum age of Blaster?	18 years
Special requirements for Blasting Supervisor?	A shot-firer may not be helped by more than 2 helpers who do not have a certificate. He must supervise them.
Medical qualifications required?	Able bodied and sound of mind.
Types of initiation permitted?	All
Underwater blasting permitted?	Yes
Special requirements/certification for underwater blasting?	No but commercial diving operations must be conducted in accordance with provincial regulatory requirements.
Military blasting experience accepted?	Yes but individual still needs to qualify by filling in a form with his past experience and if sufficient will still have to pass a test prior to being issued a Blaster's Certificate
Describe procedures/results if explosive violations observed.	Yes. Suspension of certificate, site closure, financial penalties, prosecution
Does agency have explosive inspectors?	Yes, you can find them on our Website by region. The CSST and the Surete du Quebec (SQ) also have explosives inspectors
Explosive Act (Canada) regulations enforced?	This is our mandate consult <a href="http://laws.justice.gc.ca/en/E-17">http://laws.justice.gc.ca/en/E-17</a> There is a Provincial Explosives Act and Regulations that can be found in the related links on our Website or directly to

	<a href="http://www.msp.gouv.qc.ca/police/police_en.asp?txtSection=loi&amp;txtNom">http://www.msp.gouv.qc.ca/police/police_en.asp?txtSection=loi&amp;txtNom</a>
Special explosive permits required?	NRCan/ERD issue Fireworks and Pyrotechnical certificates (requires a day course) Possession of explosives in Quebec requires a Permis Général delivered by the Sureté du Quebec (SQ) <a href="http://www.formulaire.gouv.qc.ca/cgi/affiche">http://www.formulaire.gouv.qc.ca/cgi/affiche</a> Storage and Transportation permits are required both Provincially and Federally in most cases
<b>Saskatchewan Blasting Overview</b>	
Government or other agency responsible for explosives	Government of Saskatchewan Advanced Education, Employment & Labour
Department (s)	Mine Safety Unit
Address	400-1870 Albert St. Regina Saskatchewan S4P 4W1 306-787-4496 1-800-567-7233
Contact Person (s)	Name: Neil Crocker Title: Chief Inspector of Mines Phone: 306-933-5052 Fax: 306-787-2208 e-mail: <a href="mailto:ncrocker@lab.gov.sk.ca">ncrocker@lab.gov.sk.ca</a>
Web site	<a href="http://www.labour.gov.sk.ca/">http://www.labour.gov.sk.ca/</a>
Referencing Explosive Legislation:	OH&S Regulation Part XXVI Explosives
Updated to	1996
Web site referencing explosive legislation	<a href="http://www.qp.gov.sk.ca/documents/English/Regulations/Regulations/O1-1R1.pdf">http://www.qp.gov.sk.ca/documents/English/Regulations/Regulations/O1-1R1.pdf</a>
Blasting or Explosive certification required?	Yes
Is blaster or firm or other certified?	The employer or contractor is to ensure that the worker who is to undertake a blasting operation has been thoroughly trained and is knowledgeable and competent as required by the Regulation. The blaster will hold a written authorization signed by his employer authorizing him to blast.
Who certifies blasters or firm?	No certification required. See above re written authorization.
Previous blasting training required prior to certification?	No specific training required. Employer will ensure that blaster is trained and competent.
Minimum age of Blaster?	No age limit specified
Specified Blasting Supervisor required?	No
Special requirements for Blasting Supervisor?	No
Medical qualifications required?	No.
Types of initiation permitted?	No restrictions.
Underwater blasting permitted?	Yes
Special requirements/certification for underwater	No

blasting?	
Military blasting experience accepted?	Yes. Competency to be determined by employer
Describe procedures/results if explosives violations observed.	Site closure, financial penalty, prosecution.
Does agency have explosive inspectors?	No
Explosive Act (Canada) regulations enforced?	Federal requirement
Special explosive permits required?	No

## Yukon Blasting Overview

Government	Yukon Workers' Compensation Health & Safety Board
Department (s)	Occupational Health & Safety
Address	401 Strickland St. Whitehorse, Yukon Y1A 5N8 867-667-5645
Contact Person (s)	Name: Ossie Venasse Title: Safety Officer Phone: 867-334-2002 Fax: 867-393-6279 e-mail: <a href="mailto:ovenasse@gov.yk.ca">ovenasse@gov.yk.ca</a>
Web site	<a href="http://wcb.yk.ca">http://wcb.yk.ca</a>
Referencing Explosive Legislation:	Occupational Health & Safety Regulations Part 14
Updated to	24 May, 2006
Web site referencing explosive legislation	<a href="http://wcb.yk.ca/Media/documents/Part_14.pdf">http://wcb.yk.ca/Media/documents/Part_14.pdf</a>
Referenced Explosive Standards:	Explosives Act Canada Transportation of Dangerous Goods Act Canada
Blasting or Explosive certification required?	No person shall conduct, or be permitted to conduct, a blasting operation unless the person holds a valid blaster's permit or temporary blaster's permit and the work involved is under the scope of their permit.
Is blaster or firm or other certified?	Blaster
Who certifies blasters or firm?	Yukon Workers' Compensation Health & Safety Board
Previous blasting training required prior to certification?	A candidate for a blasters permit must have at least six months experience in connection with blasting operations or have equivalent training and experience acceptable to an examiner prior to qualifying for a blaster's permit
Minimum age of Blaster?	18 years
Specified Blasting Supervisor required?	A blaster shall be assigned responsibility for conducting or directing any blasting operation
Special requirements for Blasting Supervisor?	No
Medical qualifications required?	No
Types of initiation permitted?	In accordance with permit.
Underwater blasting permitted?	Yes.

Special requirements/certification for underwater blasting?	Refer to Regulation 14.73 is specific to underwater blasting..
Military blasting experience accepted?	Yes as permitted by Yukon Workers' Compensation Health & Safety Board. Interviews may be necessary.
Describe procedures/results if explosives violations observed.	Blasters permit may be suspended and revoked.
Does agency have explosive inspectors?	Yukon Workers' Compensation Health & Safety Board officers inspect all sites for compliance with the Regulations.
Explosive Act (Canada) regulations enforced?	Yes
Special explosive permits required?	No.

## Canadian Federal Diving Overview

Government	Canada	
Department (s)	Human Resources Development Canada	
Address	165 Hôtel de Ville Place du Portage - Phase II 10 <sup>th</sup> Floor	
	Hull, Quebec K1A 0J2	
Contact Person (s)	Name:	Timothy W. Pullen – Specific Districts
	Title:	Manager
	Phone #	(819) 953-7981
	Fax:	(819) 953-4830
	Toll Free:	1-800 – 206-7218
Web site	<a href="http://www.hrsdc.gc.ca/en/home.shtml">http://www.hrsdc.gc.ca/en/home.shtml</a>	
Referenced Diving Legislation:	Canada Labour Code – Part II – Section XVIII	
Updated to	Regulation current to February 26 <sup>th</sup> , 2008	
Web site referencing diving legislation	<a href="http://laws.justice.gc.ca/en/showdoc/cr/SOR-86-304/bo-ga:l_XVIII/en#anchorbo-ga:l_XVIII">http://laws.justice.gc.ca/en/showdoc/cr/SOR-86-304/bo-ga:l_XVIII/en#anchorbo-ga:l_XVIII</a>	
Referenced Diving Standards:	Standard Section	
Z275.1 Hyperbaric Chambers	Adopted <input type="checkbox"/> Referenced <input checked="" type="checkbox"/>	Hyperbaric chambers meet the requirements of CSA Z275.1
Z275.2 Diving Operations	Adopted <input type="checkbox"/> Referenced <input checked="" type="checkbox"/>	Examining physician shall use CSA Z275.2 App, A&B as examination guideline 18(7). Breathing mixture quality to meet CSA Z275.2 section 3.8
Z275.4 Competency Requirement	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A

Z275.5 Training Criteria	Adopted <input type="checkbox"/> Referenced <input type="checkbox"/>	N/A
Other Standards Referenced		N/A
Enforcement		Reactive – Inspectors Have No Specific Training – Non-compliance - Possible site closure, financial penalty, prosecution.
Diving Medical	Yes X Required No	S. 18.7 Every Two Years. References Appendix A & B CSA Z275.2

## Canadian Federal Blasting Overview

Government	Natural Resources Canada Explosives Regulatory Division	
Department	Explosives Branch	
Address	1431 Merivale Rd. Ottawa On K1A 0G1 General Inquiries 613-948-5200	
Contact Person	Name: Title: Phone Fax:	Dr. Chris Watson Director & Chief Inspector 613-948-5170 613-948-5198 Note. This link will provide access to various ERD regions and personnel across Canada: <a href="http://www.nrcan.gc.ca/mms/explosif/cont/cont_e.htm">http://www.nrcan.gc.ca/mms/explosif/cont/cont_e.htm</a>
Web site	<a href="http://www.nrcan.gc.ca/mms/explosif/cont/conlist_e.htm#headquarter">http://www.nrcan.gc.ca/mms/explosif/cont/conlist_e.htm#headquarter</a>	
Referencing Explosive Legislation:	Explosives Act Canada	
Updated to	28 January 2008	
Web site referencing explosive legislation	<a href="http://laws.justice.gc.ca/en/ShowFullDoc/cs/E-17///en">http://laws.justice.gc.ca/en/ShowFullDoc/cs/E-17///en</a>	
Blasting or Explosive certification required?		Yes. Purchase and Possession Permits, Magazine and Fireworks licenses required.
Referenced Explosive Standards:	Explosives Act Canada	
Is blaster or firm or other certified?	N/A	
Who certifies blasters or firm?	N/A	
Previous blasting training required prior to certification?	N/A	
Minimum age of Blaster?	18 Years	
Specified Blasting Supervisor required?	Fireworks	
Special requirements for Blasting Supervisor?	N/A	

Medical qualifications required?	No
Types of initiation permitted?	N/A
Underwater blasting permitted?	N/A
Special requirements/certification for underwater blasting?	N/A
Military blasting experience accepted?	N/A.
Describe procedures/results if explosives violations observed.	Stop work, suspension or cancellation of license or certificate, prosecution, seizure of explosives,
Does agency have explosive inspectors?	Yes
Explosive Act (Canada) regulations enforced?	Yes.
Above regulations enforced by whom?	Federal Explosive Inspectors, RCMP, provincial jurisdictions.
Special explosive permits required?	N/A

NOTE: The Explosives Regulatory Division (ERD), a part of Natural Resources Canada, is responsible for administering Canada's *Explosives Act* and Regulations. ERD operates with two main goals in mind: first, to improve public safety; and second, to strengthen national security. Under Canada's *Explosives Act* and Regulations, ERD: Maintains a system of authorization, licensing, certification and permits, supported by a compliance inspection program; and Takes steps to ensure that only responsible people have access to explosives.

ERD works to ensure compliance with the *Explosives Act* and Regulations in the manufacture, importation and distribution of many types of explosives, including:

Blasting Explosives, Pyrotechnics (special effects), Fireworks, Ammunition, Propellant powders.

#### Transportation of Explosives

Two Government of Canada organizations are responsible for the transportation of explosives:

NRCAN Explosives Regulatory Division and,

Transport Canada Transportation of Dangerous Goods Directorate , which administers the Transportation of dangerous goods Act and Regulations.

It is recommended that all blasters or individuals transporting explosives be knowledgeable with the requirements of the Transportation of Dangerous Goods Act and Regulations which may be found at the following link: <http://www.tc.gc.ca/tdg/menu.htm>