

# WELL DRILLERS' COURSE

Our 9-hour well drillers' course is designed to provide a general overview of the knowledge and skills essential to working as a water well or geotechnical/environmental well driller in BC. The course is suited to those wishing to sharpen their knowledge of drilling fundamentals and to those preparing to challenge the Industry Training Authority (ITA) driller certification exam.

Day	Driller Class	Time	Subject	Subject Detail
<b>Wednesday April 10</b>	<b>All drillers (Water Well and Geotech/Enviro)</b>	7:30 - 8:30 AM		BREAKFAST
		8:30 - 9:00 AM	Geology and Hydrogeological Principles	geology, hydrologic cycle, sediment logging
		9:00 - 9:30 AM		groundwater occurrence, aquifer properties, controlling artesian flow
		9:30 - 10:00 AM		regulations and reporting requirements
		10:00 - 10:30 AM		COFFEE BREAK
		10:30 - 11:00 AM	Workplace Safety & Environmental Regs	safety procedures wrt common hazards (machinery, gases, substances, environmental)
		11:00 - 11:30 AM		proper use of hand and power tools
		12:00 - 1:00 PM		LUNCH
		1:00 - 1:30 PM	Drilling methods & Hydraulic systems	Hydraulic systems (principles of operation, basic components, failures and causes, maintenance)
		1:30 - 2:00 PM		Sonic, auger, and boring drilling
		2:00 - 2:30 PM		COFFEE BREAK
		2:30 - 3:00 PM		High volume air systems, air rotary, dual rotary drilling
		3:00 - 3:30 PM		Mud rotary, cable tool, and air hammer drilling
3:30 - 4:00 PM	Drilling bits, fluids, grouts			
<b>Thursday April 11</b>	<b>Water Well Drillers</b>	8:00 - 9:00 AM		BREAKFAST
		9:00 - 9:30 AM	Water well design & Well pumping systems	Water well construction (types of wells, sizing and sealing casing, setting screens and filter packs)
		9:30 - 10:00 AM		Well development, disinfection, rehabilitation, decommissioning
		10:00 - 10:30 AM		Well pump types, applications, maintenance, troubleshooting
		10:30 - 11:00 AM		COFFEE BREAK
		11:00 - 11:30 AM	Pump electrical, pumping tests	
		12:00 - 1:00 PM		LUNCH
	<b>Geotech/Enviro Drillers</b>	8:00 - 9:00 AM		BREAKFAST
		9:00 - 9:30 AM	Contaminant hydrogeology & Groundwater monitoring	Groundwater contaminant sources, transport
		9:30 - 10:00 AM		GW and soil vapour monitoring installations
		10:00 - 10:30 AM		Types and applications of monitoring devices in wells, water quality sampling
		10:30 - 11:00 AM		COFFEE BREAK
		11:00 - 11:30 AM	Borehole closure	
12:00 - 1:00 PM		LUNCH		



## INSTRUCTORS

Mark MacNeil (Geotech Drilling),  
Bill Tuytel (Downrite Drilling),  
John Vlcek (Cariboo Water Wells),  
Ron Nelson (Precision Service & Pumps)  
Thom Hanna (Aqseptance Group), and  
Ineke Kalwij (Kalwij Water Dynamics)

## TO REGISTER

go to: <https://www.bcgwa.org/event/2019-bcgwa-trade-show-convention-and-agm/>

**\$700 ± GST**

Course registration includes 2 breakfasts, coffee breaks, 2 lunches, and admission to the President's Gala Banquet on April 10

## ITA CERTIFICATION EXAM INFORMATION

Taking the Well Drillers' Course does not automatically qualify you to challenge the ITA water well driller or geotechnical/environmental driller exam. To qualify, your application must be approved by the ITA. For more informatio, go to:

<https://www.itabc.ca/program/geotechnicalenvironmental-driller>  
<https://www.itabc.ca/program/water-well-driller>



There will be no ITA exam offered at this year's BCGWA convention.

Approved candidates can request to write their exam at one of the regularly scheduled exam sessions (12 locations) across the province or at a local Services BC office (60 locations).

For more information, go to:

<https://www.itabc.ca/exams/writing-your-exams>