

BCGWA 2022 TRADE SHOW & CONVENTION



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.

Instructors

Ineke Kalwij (Kalwij Water Dynamics)
Mark MacNeil (Geotech Drilling)
Bill Tuytel (Downrite Drilling, retired)
David Slade (Drillwell Enterprises, retired)
Ron Nelson (Precision Service & Pumps)

Registration

To register:

<https://www.bcgwa.org/convention-2022-registration/>

Course registration includes 2 breakfasts, coffee breaks, 2 lunches, and admission to the Meet N Greet Social

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 information on this process, go to:

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

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

There will be no opportunity to challenge the ITA exam at this year's convention. Approved candidates can request to write their exam at one of the regularly scheduled exam sessions (12 locations) or at a local Services BC offices (60 locations) across the province.

For more information, go to: <https://www.itabc.ca/exams/writing-your-exams>



WELL DRILLERS COURSE AGENDA

Day	Driller Class	Time	Subject	Subject Detail
Thursday April 7	All drillers (Water Well and Geotech/Enviro)	7:30 - 8:30 AM		BREAKFAST
		8:30 - 10:00 AM	Geology and Hydrogeological Principles	Geology, hydrologic cycle, sediment logging Groundwater occurrence, aquifer properties, controlling artesian flow Regulations and reporting requirements
		10:00 - 10:30 AM		COFFEE BREAK
		10:30 - 11:30 AM	Workplace Safety & Environmental Regs	Safety procedures wrt common hazards (machinery, gases, substances, environmental) Proper use of hand and power tools
		12:00 - 1:00 PM		LUNCH
		1:00 - 2:00 PM	Drilling Methods & Hydraulic Systems	Hydraulic systems (principles of operation, basic components, failures and causes, maintenance) Sonic, auger, and boring drilling
		2:00 - 2:30 PM		COFFEE BREAK
		2:30 - 4:30 PM		High volume air systems, air rotary, dual rotary drilling Mud rotary, cable tool, and air hammer drilling Pump types (piston, progressive cavity, etc), drilling bits, grouts
Friday April 8	Water Well Drillers	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) Well development, disinfection, rehabilitation, decommissioning
		9:30 - 10:00 AM		Well pump types, applications, maintenance, troubleshooting
		10:00 - 10:30 AM		
		10:30 - 11:00 AM		COFFEE BREAK
		11:00 - 12:00 AM		Pump electrical, pumping tests
		12:00 - 1:00 PM	LUNCH	
	Geotech/Enviro Drillers	8:00 - 9:00 AM		BREAKFAST
		9:00 - 9:30 AM	Groundwater Contamination & Testing	Groundwater contaminant sources, transport
		9:30 - 10:00 AM		Water, soil, vapour sampling methods (CPT, vanes,shelby tubes, packers, etc.)
		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 - 12:00 AM	Borehole closure	
		12:00 - 1:00 PM	LUNCH	

