



# 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 familiarize themselves with the trade and to those preparing to challenge the Industry Training Authority (ITA) driller certification exam.

Day	Driller Class	Time	Subject	Subject Detail
Wednesday April 10	All drillers (Water Well and Geotech/Enviro)	7:30 - 8:30 AM		BREAKFAST
		8:30 - 9:00 AM	Geology and Hydrogeological Principles	hydrogeologic cycle, geological formations, maps
		9:00 - 9:30 AM		aquifer types, artesian flow (probable scenarios, control)
		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		High volume air systems, air rotary, dual rotary drilling
		2:30 - 3:00 PM		COFFEE BREAK
		3:00 - 3:30 PM		Mud rotary, cable tool, and air hammer drilling
3:30 - 4:00 PM	Drilling bits, fluids, grouts			
Thursday April 11	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)
		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	
	Geotech/Enviro Drillers	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		

## Course instructors:

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

**\$650+tx (early bird)**

**\$700+tx (after Feb. 1)**

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