## WATER QUALITY ANALYST EXAM NEED-TO-KNOW

This guide was created to provide information on the topics that are covered on the **Water Quality Analyst** examination.

A Water Quality Analyst certificate allows the holder to conduct testing for the 24 operational parameters listed under subsection 2(1) of the Drinking Water Testing Services regulation, O. Reg. 248/03 (e.g. testing for chlorine residual, turbidity, alkalinity, pH).

The Water Quality Analyst exam consists of 100 multiple-choice questions.

## **Water Quality Analyst Exam Knowledge Requirements**

Topic	Number of Questions	Knowledge Requirements
Math	6	Conversion of units
		Alkalinity
		• Normality
		• Solutions
		• Concentrations
		Area
		• Volume
Science	14	Molecules
		Chemical reactions
		<ul> <li>Chemical symbols</li> </ul>
		Organic & inorganic compounds
		Bases & acids
		Atomic weight
		Water chemistry
		Conductivity
Laboratory & Sampling	19	Apparatus
		• Reagents
		Sample Collection
Safety	9	• Lab safety
•		• First-aid
		Worker responsibility
		• WHMIS
Water Characteristics	15	• Colour
		Hardness
		Taste & odour
		• pH
		Temperature
		Turbidity
Bacteriological Testing	9	Fecal coliform
		Total coliform
		Pathogenic bacteria

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Chemical Testing	6	Dissolved oxygen
		Dissolved solids
		Suspended solids
		Fluoride
Disinfection	8	Chlorine residual testing
		Break-point chlorination
Quality Assurance &	11	Reliability
Quality Control		Sensitivity
		Precision
		Permanence
		Accuracy
		Calibration
Regulation	3	O. Reg. 170/03 – Ontario Drinking Water
		Systems Regulation