



Reverse Osmosis Webinar Description

Reverse osmosis is commonly used in drinking water treatment and wastewater treatment to remove calcium, magnesium, and other metals, as well as soluble trace toxic organic compounds.

Course covers R.O. membrane types and advantages of each including ceramic membranes, polysulfone membranes, and the most common of all, the polyamide membranes. Learn the advantages of the different membrane configurations: tubular, hollow fiber, and spiral wound. Fouling is a major problem with membranes. Learn how to remedy the different types of fouling whether it be using a nonoxidizing biocide for biological fouling, using a weak acid for scale, or using an alkali cleaner for organics. About eighty percent of the processed water becomes the permeate while twenty percent becomes the concentrate. This concentrate has five times as much dissolved solids in it than the source water. We will explore the challenge of discharging the concentrate. We will also look at troubleshooting of various problems from ion leak through to increased operating pressures.