Walters environmental consulting, inc.

Environmental Toxicology Webinar Description

Our water tells a story. It is a story of industrial chemicals, medicinal compounds, pesticides, steroidal compounds, microplastics, and excess waste. We will look at the environmental effects and what the future holds. From heavy metals to exotic organic contaminants, it is our responsibility to undo the damage that progress has wreaked on our water. We will explore the importance of testing, toxicological impact on the environment & human health, and the necessary treatment improvements. The law has put the focus on these issues, but the law cannot fix them. Only we can do that.

This course provides a practical, science-based overview of toxic substances commonly encountered in treatment systems, including heavy metals, organic compounds, disinfection byproducts, and emerging contaminants such as PFAS and microplastics. Participants will learn how these contaminants behave in the environment, how they affect biological systems, and why they are often difficult to remove.

The training emphasizes real-world application, including how treatment processes influence toxicity, how to interpret toxicity testing and biomonitoring data, and how to assess environmental risk. Participants will also explore current regulatory pressures and evolving treatment strategies.

Drawing from the instructor’s decades of field experience, the course connects toxicological principles to operational decision-making—helping professionals better understand not just what contaminants are present, but what they mean for treatment performance, compliance, and environmental impact.