

Agenda: Nutrient Removal Fundamentals

In Partnership with Water Environment Federation



This online eLearning course is being offered in partnership with Water Environment Federation (WEF).

Summary - The Nutrient Removal Fundamentals course reviews the processes to remove ammonia, nitrite, nitrate, and phosphorus from wastewater. This chapter is a subset of the Wastewater Treatment Fundamentals I: Liquid Treatment course.

Estimate to Complete - 8.5 hours

Chapter 9: Nutrient Removal - Fundamental concepts in biological treatment were discussed in Chapter 5, including an introduction to two groups of specialized microorganisms: nitrifying bacteria and phosphate accumulating organisms (PAOs). This chapter goes into more detail and discusses the wastewater characteristics and process variables that impact these microorganisms and that affect the ability of water resource recovery facilities (WRRFs) to remove ammonia, nitrite, nitrate, and phosphorus. Chemical phosphorus removal is also included in this chapter.

Final Assessment - Students need to answer 70% of the questions correct to pass the final assessment and receive credit for the Nutrient Removal Fundamentals course.

NRF: End of Course Survey (not included in est. 8.5 hours) - After passing the final assessment, students are directed to an end of course survey to evaluate the learning experience and provide license information to ensure the information in the LMS is correct.

Course Schedule: Nutrient Removal Fundamentals

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Module Title	Average Time to Complete
Chapter 9: Nutrient Removal	8 hours
Final Assessment	4 hours
NRF: End of Course Survey (not included in est. 8.5 hours)	Not applicable