

ACPA WORKSHOP

PIPE FLOTATION & BUOYANCY

OCTOBER 1, 2021

SESSION 1
7:45am-12:00pm CT

Theory | *Methods* | *Best Practices*

SESSION 2
8:15am-12:30pm PT

PDHs offered: 4.0

QUALITY, REPAIRS, & FINISHING

Understanding buoyancy is important when installing storm drainage structures and pipe. Applying the theory of buoyancy to the installation and maintenance of storm drainage has proven beneficial in the asset management process. We will address the theory of pipe buoyancy, susceptible scenarios for pipe flotation, and two recognized methods for calculating pipe flotation potential. We will close by identifying several best practices to prevent buoyancy from impacting culverts.

INSTRUCTOR-LED ONLINE TRAINING

ACPA's workshops combine both live sessions and independent, online work the student completes during the training. Independent work includes short assignments such as videos, quizzes, and/or readings. Live sessions allow students to apply the knowledge they just learned during the independent online work time. Access to a computer with a webcam and a reliable computer connection will facilitate a successful learning experience. Come prepared to lean forward into the training and be an active participant.

Session 1 times are listed below in Central Time Zone; For Session 2 times, add 30 min and adjust to Pacific Time Zone.

7:45-8:30am **SET UP/GET ORGANIZED/LIVE DISCUSSION (INTRODUCTION)**

8:30-9:45am **BUOYANCY AND FLOTATION**

Watch lectures, completed assigned work
Module 1 – Theory of Buoyancy / Flotation of Pipe
Module 2 – Buoyancy Calculation Methods / Design Data 22 / Watkins Moser

9:45-10:15am **LIVE DISCUSSION**

10:15-11:30am **DRAINAGE BASICS**

Watch lectures, completed assigned work
Module 3 – Calculation Examples: RCP and CMP
Module 4 – Calculation Example: HDPE / Flotation Prevention Best Practices

11:30-12:00pm **LIVE DISCUSSION/WRAP-UP**

REGISTRATION

Learn more and register: concretepipe.org/workshops

Registration fees: \$25/attendee