

Security Practices for Operations and Management | EL261

OUTLINE / COURSE DESCRIPTION

.1 CEU/1 PDH/1 Contact Hour

This course demonstrates how water and wastewater utility participants can integrate security and preparedness into the culture of their organization. Through an understanding of the elements of a risk and resilience management strategy that are based on the AWWA G430 standard, utility participants will be able to apply these elements to their own organization. The course also provides examples of best practices for all-hazards risk and resilience based on sections of the G430 standard which is titled "Security Practices for Operation and Management." The information from this course facilitates compliance with provisions of America's Water Infrastructure Act of 2018 (AWIA).

The course modules include:

- Module 1: Elements of a Risk and Resilience Management Strategy
- Module 2: Resources for Developing and Maintaining a Risk and Resilience Management Strategy
- Module 3: Summary of How a Risk and Resilience Management Strategy Facilitates AWIA Compliance

LEARNING OBJECTIVES

- Comprehend the commitment, culture, and employee expectations in a risk and resilience management strategy
- Recognize the 13 elements of a risk and resilience management strategy
- Understand the concepts of detect, deter, devalue, delay, and respond
- Identify resources for developing a risk and resilience management strategy
- Recognize the applications and use of resource tools and where to find them
- Recognize how to achieve a risk and resilience management strategy, and how this facilitates AWIA compliance

COURSE REGISTRATIONS AS OF 11/14/2019: 600

DEVELOPMENT AUTHOR / SPEAKER BIO

Linda Peiperl Warren

Since 2002, Linda has facilitated utilities throughout the U.S. to train staff in preparedness while completing risk assessments, emergency plans, continuity plans, and emergency exercises. Education: Tufts University, M.S., Civil Engineering (Water Resources) 1990-1992), The College of William and Mary, Bachelor of Science (B.S.), Environmental Science, 1986-1990.

Sarah Moore, CEM

Sarah has over 15 years' experience as an emergency manager in the public sector working at all levels of government and has been assisting water, wastewater, and power utilities build emergency preparedness and security programs for the last six years. Education: University of North Texas, Emergency Administration and Planning, Crisis/Emergency/Disaster Management, 2001-2006, University of Missouri-Columbia, Geological and Earth Sciences/Geosciences, 2000-2001.

Ken “Ike” Eisenhart

Ike brings his military, first responder, and emergency operations center experience to utilities as a preparedness trainer, assisting in identifying and mitigating vulnerabilities, and in developing practical emergency response plans and exercises.

Shearin Dramby

Shearin assists utilities in regulatory compliance through environmental, risk and resilience, and emergency planning projects. Education: University of North Carolina at Wilmington, Bachelor of Arts (B.A.), Environmental Studies, 1997-2001.

Andrew Ohrt, PE, ERMCP

Over the course of his career, Andrew has supported numerous utilities and municipalities build resilience through various types of projects including risk and resilience assessments, hazard mitigation planning, emergency response planning, and cybersecurity assessments. This includes serving as the embedded Emergency Preparedness and Security Manager for a combined water/wastewater utility in the National Capital Region.

He is currently supporting utilities build AWIA compliance with an emphasis on cybersecurity and cyber-informed engineering. Education: University of Minnesota-Twin Cities, M.S., Civil Engineering, 2002-2005, Gustavus Adolphus College, B.A., Physics, 1998-2002.

SME PEER REVIEWER(S)**Cyde Dugan**

Clyde Dugan has over 40 years experience in the water industry. He is Manager of a drinking water treatment plant, providing a softened groundwater supply to 2 communities in central Michigan. Certified F1 Treatment and S1 Distribution System Operator. Member of the AWWA Standards Council and Chair of the Standards Committee responsible for the G430 Standard – Security Practices for Operation and Management.

John McLaughlin, PE

John has over 29 years experience in the water industry. He is a graduate civil engineer from Virginia Tech, with water/wastewater focus. I have worked in the field of water system security, emergency preparedness and response for over 20 years including membership and chairing multiple industry focused committees on the subject.

Also reviewed by AWWA SME and Education Staff.

COURSE METHODOLOGY

This is a Self-paced course. Self-paced courses are delivered exclusively online and progress is driven solely by the student. This format allows the student to move through course content at the student's own pace, taking into consideration the individual's knowledge level and capacity. Self-paced courses can be completed anytime during a 90-day period after registration. These courses may include presentations, pre-recorded audio, supporting articles, online learning activities, videos, quizzes, and evaluations.