

## **Cybersecurity Refresher Training**

### **Training Dates:**

- Wednesday, May 28<sup>th</sup>, 2025
- Wednesday, August 6<sup>th</sup>, 2025
- Wednesday, November 5<sup>th</sup>, 2025

### **Introduction & General Description:**

- EPA's Water Infrastructure and Cyber Resilience Division provides training on cybersecurity basics to water and wastewater utilities to reinforce their foundational understanding of cybersecurity and how it applies to the water sector.

### **Course Objectives:**

- Understand cybersecurity basic key terms, foundational principles, and a snapshot of its history in the water sector.

### **Course Format and Procedures:**

- Format: Virtual Training (Instructor Led)
- Duration: 1:00:00
- Procedures:
  - o Attend Training via training link (MS Teams or Zoom)
  - o Answer all poll questions (4)
  - o Remain in training for entire duration.
    - Final poll question is at the end of training session.

### **Course Agenda:**

#### **1.) Introduction (5 minutes)**

- a. Welcome and course overview
- b. Importance of cybersecurity
- c. IT vs OT

#### **2.) Common Cyber Threats and Attack Vectors (15 minutes)**

- a. Explanation of common cyber threats such as phishing, malware, and social engineering
- b. Overview of difference attack vectors used by cyber criminals
- c. Real world examples

#### **3.) Basics of Network Security (15 minutes)**

- a. Overview of network security principles and best practices
- b. Explanation of firewalls, VPNs, and intrusion detection systems
- c. Importance of securing WiFi Networks

#### **4.) Importance of Strong Passwords and Authentication (10 minutes)**

- a. Discussion on Password security best practices
- b. Introduction to Multifactor Authentication (MFA)
- c. Tips for creating and managing strong passwords

#### **5.) Understanding Malware: Types and Prevention (10)**

- a. Explanation of different types of malware (viruses, worms, ransomware)

- b. Strategies for preventing malware infections
  - c. Importance of regular software updates and patches
- 6.) Incident Response and Incident Handling Procedures (5 minutes)**
  - a. Overview of Incident Response procedures
  - b. Importance of reporting security incidents promptly
  - c. Brief Introduction to incident handling best practices
- 7.) Conclusion and Q&A (5 minutes)**
  - a. Recap of Key points covered in the training
  - b. Opportunity for participants to ask questions and seek clarification

#### **Presenter Biographies:**

- Cameron Burden: Cybersecurity Specialist with USEPA
  - o Cameron Burden is a member of EPA's Water Infrastructure and Cyber Resilience Division's Cybersecurity Branch and quickly coming up on his second year. Having earned a Bachelors in Information Technology, he now applies his knowledge in the Water Sector of EPA with the mission to inform U.S. Public Water Systems about cybersecurity best practices that will help improve the overall cyber posture in the water sector.
- Cole Dutton: Cybersecurity Specialist with USEPA.
  - o *Cole Dutton is a member of EPA's Water Infrastructure and Cyber Resilience Division's Cybersecurity Branch. He holds a master's degree in Information Security from James Madison University, as well as industry-standard cybersecurity certifications from CompTIA and (ISC)2.*

#### **Attendance Verification and Retention of Attendance Records (Same as Course Completion):**

- Attend Virtual Webinar Course (instructor Led)
  - Answer Poll Questions (4)
  - Final Poll Question is at the end of the training to ensure participant attendance.
  - Attendee must register with the following information:
    - Name (first and last)
    - Email
    - Utility Name
    - State
  - Attendance records are kept by training date.

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**Sample Certificate of Completion: (Attached)**