

## **Cybersecurity 103 Training for Water Systems**

### **Training Dates 2026:**

- April 8<sup>th</sup>
- June 10<sup>th</sup>
- August 12<sup>th</sup>
- October 14<sup>th</sup>

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

- This training builds upon EPA's Cybersecurity 102 Training for Water Systems, providing further details on cybersecurity threats facing the water sector. Participants will learn about state-sponsored threats, risks to Industrial Control Systems (ICS) and Supervisory Control and Data Acquisition (SCADA) systems, malware, and vulnerabilities within Human-Machine Interfaces (HMIs). The course also highlights real-world cybersecurity incidents impacting water systems, emphasizes the importance of staying informed on emerging threats, and outlines incident reporting processes and available cybersecurity resources to support preparedness and resilience.

### **Course Objectives:**

- Understand cybersecurity basic key terms, foundational principles, and a snapshot of its history in the water sector. Additionally inform audience on recent cyber incidents as well as identifying cyber related resources for the water sector.

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

- Format: Virtual Training (Instructor Led)
- Duration: 1:30:00
- Procedures:
  - o Attend Training via training link (MS Teams or Zoom)
  - o Answer all poll questions (5)
  - o Remain in training for entire duration.
    - Final poll question is at the end of training session.

### **Course Agenda:**

- 1.) Introduction (5 Minutes)**
- 2.) Big Picture: Cyber Threats to Critical Infrastructure (5 minutes)**
- 3.) Review of Common Threats to Water Systems (2024 Cyber Refresher) (10 minutes)**
  - a. Malware
  - b. Insider Threats
  - c. Social Engineering
- 4.) State-Sponsored Cyber Threats (5 minutes)**
  - a. Who are they?
- 5.) Targeting of ICS/SCADA Devices (5 minutes)**
  - a. What are they aiming at?
- 6.) Real-Life Examples of Cybersecurity Threats/Incidents at Water Systems (10 minutes)**

- a. Malware Incidents
- b. Insider Threat Incidents
- c. Social Engineering Incidents
- 7.) Best Practices to Protect Water Systems (10 minutes)**
  - a. What can a utility do?
    - i. Top 8 Cyber Factsheet
- 8.) EPA Cybersecurity Resources (20 minutes)**
  - a. Cybersecurity Technical Assistance
  - b. Cybersecurity Assessments (Cyber Eval Program)
  - c. Cybersecurity Planning
  - d. Cybersecurity Training
  - e. Cybersecurity Response
  - f. Cybersecurity Funding
  - g. CISA Cybersecurity Resources
- 9.) Cybersecurity Incident Reporting (2024 Cyber Refresher) (5 minutes)**
- 10.) 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
- 11.) Time Allotted for Poll Questions (10 minutes)**

**Presenter Biographies:**

- Cameron Burden: Cybersecurity Specialist with USEPA **(MAIN)**
  - o Cameron Burden is a member of EPA's Office of Water Emergency Response and Cybersecurity (OWERC). 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.
- Vijal Pancholi: Cybersecurity Specialist with USEPA **(MAIN)**
  - o Vijal Pancholi is a member of EPA's Office of Water Emergency Response and Cybersecurity (OWERC) He currently holds a bachelor's degree in Computer Networks and Cybersecurity and uses his knowledge to help the Water Sector increase their cyber resilience through webinars and outreach.
- Cole Dutton: Cybersecurity Specialist with USEPA. **(ALTERNATE)**
  - o *Cole Dutton is a member of EPA's Office of Water Emergency Response and Cybersecurity (OWERC). 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 (5)

- 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.

**Criteria of Course Completion (Same as Attendance Verification):**

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**Sample Certificate of Completion:**

