Cybersecurity 103 Training

Training Dates:

- Tuesday, June 10th, 2025
- Thursday, August 21st, 2025
- Tuesday, November 18th, 2025

Introduction & General Description:

- EPA's Water Infrastructure and Cyber Resilience Division provides training aiming to expand cyber knowledge for the water sector. The training will be a continuance of the Cyber Refresher and Cyber 102 trainings.

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:
    - Attend Training via training link (MS Teams or Zoom)
    - Answer all poll questions (10)
    - 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
    - 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.
    - *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 (10)
    - 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)