

## **Cybersecurity 102 Training**

### **Training Dates:**

- Thursday, May 29<sup>th</sup>, 2025
- Wednesday, August 13<sup>th</sup>, 2025
- Wednesday, November 12<sup>th</sup>, 2025

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

This course builds upon the EPA WICRD Cyber 101, offering deeper insights into cybersecurity for those with basic knowledge in the field as it applies to Operational Technology (OT).

Whether you are an IT professional, business owner, or simply interested in protecting yourself online, this training equips you with practical skills to navigate today's digital threats.

### **Course Objectives:**

- Equip participants with knowledge and practical skills that build on the basics of cybersecurity 101. The training dives into the similarities and differences of IT and OT. By the end of the course, participants will have a deeper understanding of OT cybersecurity principles, enabling them to proactively protect themselves and their organizations from cyber threats.

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

- Format: Virtual Training (Instructor Led)
- Training Date: September 4<sup>th</sup>, 2024
- Duration: 1:30:00
- 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 (3 minutes)
- 2.) IT vs OT (7 mins)
  - a. High level explanation of IT
  - b. Common IT issues that relate to OT
  - c. Network segmentation
- 3.) Common OT systems (5 mins)
- 4.) OT myths (15 mins)
  - a. Air Gap (insider threat)
  - b. Small Business
  - c. Strong Password (MFA)
- 5.) Common OT Threats (10 mins)
  - a. Real world examples
- 6.) Protecting OT systems (10 mins)
  - a. Risk assessment

- i. Assessment resources
  - b. Asset Management
    - i. Inventory management
  - c. Access Control
    - i. Privileged access accounts
    - ii. MFA for remote access
- 7.) Secure By Design (5 mins)
- 8.) Incident Reporting/Response (30 mins)
  - a. CISA/FBI/WATERISAC Speaker
  - b. Incident Response Plan
- 9.) Recovery (5 mins)
  - a. Manual mode
    - i. Pros/Cons

#### **Presenter Biographies:**

- Cameron Burden: Cybersecurity Specialist with USEPA **(MAIN)**
  - 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.
- Vijal Pancholi: Cybersecurity Specialist with USEPA **(MAIN)**
  - o Vijal Pancholi is a member of EPA's Water Infrastructure and Cyber Resilience Division's Cybersecurity Branch. 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 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.

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

- 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.

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