Main Breaks & Cross Connections LESSON PLAN

Overview:
This lesson focuses on main breaks and cross connections, describes how these events can compromise water quality in the distribution system and provides solutions to the most common challenges from the field.

Learning Objectives:
At the completion of this lesson, participants should have the ability to:

• Be able to preserve water quality when responding to a water main break
• Describe the difference between proactive and reactive responses
• Be able to describe what a cross connection is and recognize a cross connection
• Be able to describe the seriousness of cross-connections, and importance of cross-connection control
• Describe requirements for cross-connection control
• Be able to outline the emergency response in the event of a backflow

Materials Needed:
• PowerPoint presentation
• Participant handouts, pre- and post-tests

Agenda:
Agenda development is based on a 45-minute lesson:

• 10 min – Introduction and main break responses
• 8 min – Disinfecting pipe
• 22 min – Cross connections
• 5 min – Identifying cross connections activity

Evaluation:
Pre and post tests will be administered before and after the workshop along with the other lessons’ questions.