



Objectives:

- Community Risk Reduction SCEF Program
- Understand changes in the Code of Virginia on certification for fire sprinkler inspector
- Learn how the certification works
- Learn what is required for recertification
- Understand remote inspection and testing

The 3 E's of fire protection:

Education Engineering Enforcement







A. No person may perform or offer to perform inspections of automatic fire sprinkler systems...unless certified...under this provision. B. The Board shall certify as an automatic fire sprinkler system inspector any person who receives (i) a level II or higher Inspection and Testing of Water-Based Systems certificate issued through the National Institute for Certification in Engineering Technologies (NICET) or (ii) (similar program). The Board may suspend or revoke certification...for any person that does not maintain a certification.

Code of
Virginia-54.11147:

• C. ...A person lacking certification...but
participating in a training or apprenticeship
program may perform...inspections so long
as (i) (they) are accompanied by a
certified...inspector and (ii) ...inspection
forms are signed by the certified...inspector.



NICET
requirements
for
certification:

* Level I

* 6 months full-time equivalent with water-based fire protection systems inspection and testing activities. This can include up to 3 months of any combination of

* Water-based systems installation, service, maintenance and/or acceptance testing

* Government enforcement of inspection and testing requirements

* Insurance review of inspection and testing requirements

* Water-based systems layout

* Fire alarm inspections

NICET requirements for certification:

• Level II

• The minimum required for Level I plus 18 months of full-time equivalent work experience in the inspection and periodic testing of water-based fire protection systems. This 18 months may include up to 3 months of any combination of

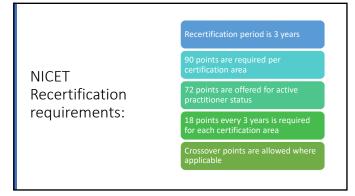
• Water-based systems installation, service, maintenance and/or acceptance testing

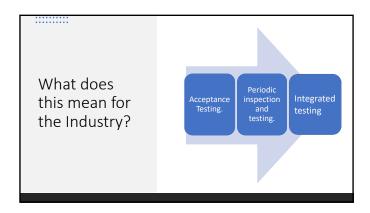
• Government enforcement of inspection and testing requirements

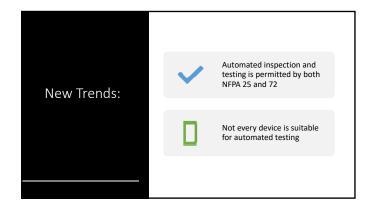
• Insurance review of inspection and testing requirements

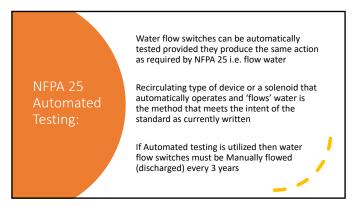
• Water-based systems layout

• Fire alarm inspections





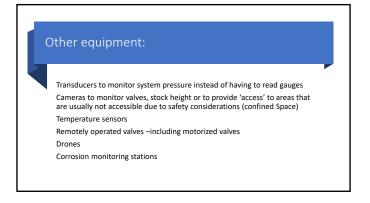


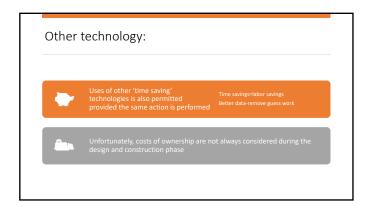


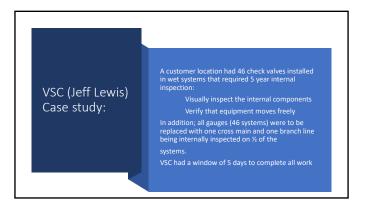
NFPA 72automated
testing:

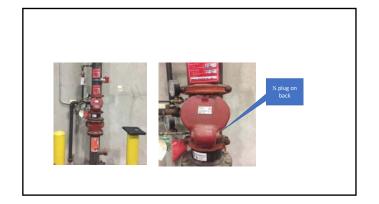
Can use a solenoid to
auto test water flow
switch, but the
solenoid must be
monitored for failure.

FACP can self test
sensitivity of a smoke
detector but not the
activation of a smoke
detector.



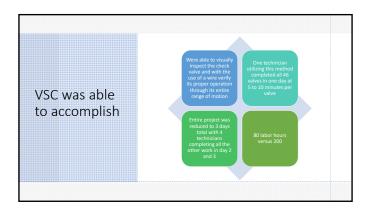








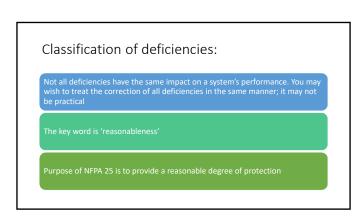


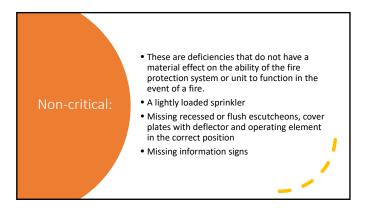


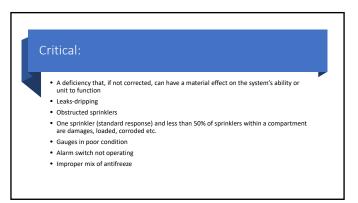


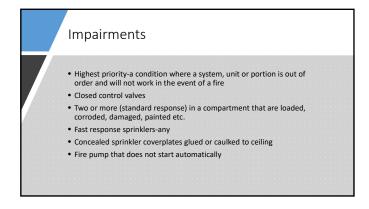


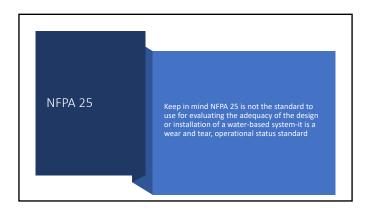
Virtual and Augmented Reality: • These two technologies are starting to make in roads into the construction industry • Things like construction site coordination between trades • Being able to see the systems in 3 D • Training • VSC just completed a 90 day VR pilot program • 298 employees through the program • Each participant had to answer a set of questions before and after

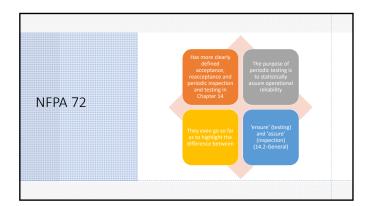


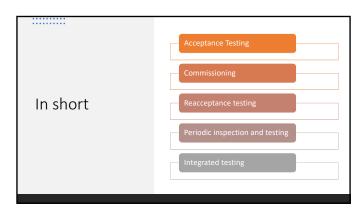












Periodic
Inspection and testing

You are allowed by NFPA standards and the IFC to inspect and test each system individually without integration:
Elevator recall not part of a NFPA 72 inspection and test
Central station monitor of alarms is not part of NFPA 25
Fire doors not part of NFPA 72
Fire dampers not part of NFPA 72
Smoke control systems

