

Program Information

This certification program is for engineering technicians engaged in the layout and detailing of water-based fire protection systems which must meet code and statutory requirements. Areas covered include: plan and submittal preparation, applications of various types of water-based systems, equipment selection and application, and technical management of layout projects.

Certification is awarded to individuals who meet a set of industry-specified requirements. The criteria fall in two main categories: written exams and work experience, each of which has a separate application process and fee.

Value of Certification

Holding NICET certification, a nationally-recognized certification, is known to:

- Increase professional stature.
- Increase job advancement opportunities.
- Provide additional responsibilities and/or accelerated entry into new job assignments.
- Increase assignments where NICET certification is a requirement.
- Serve as a marketable credential to employers, prospective employers and/or clients.

The National Institute for Certification in Engineering Technologies (NICET), a division of the National Society of Professional Engineers (NSPE), provides an independent and rigorous evaluation of knowledge and experience of individuals in the fields of engineering technology. Founded in 1961, NICET serves as a respected authority in many technical fields, and has certified more than 130,000 technicians and technologists.



Fire Protection

Water-Based Systems Layout

National Institute for Certification in Engineering Technologies (NICET)

1420 King Street
Alexandria, Virginia 22314
www.nicet.org

P: 888-476-4238
P: 703-548-1518
F: 703-682-2756

Water-Based Systems Layout Content Outline Summary and Requirements



Content Outline Summary

The content outline summary is intended to illustrate the major responsibilities, tasks, knowledge, and skills associated with each level of certification.

Level I

- 1.1 Safety Tasks (2-5%)
- 1.2 Contract Documents Tasks (7-10%)
- 1.3 Survey Existing Conditions Tasks (13-15%)
- 1.4 Codes and Standards Tasks (7-10%)
- 1.5 System Layout Tasks (53-56%)
- 1.6 Submittal and Approval Process Tasks (4-7%)
- 1.7 Project Management Tasks (4-7%)

Level II

- 2.1 Safety Tasks (2-5%)
- 2.2 Contract Documents Tasks (4-7%)
- 2.3 Survey Existing Conditions Tasks (10-12%)
- 2.4 Codes and Standards Tasks (5-8%)
- 2.5 System Layout Tasks (68-71%)
- 2.6 Submittal and Approval Process Tasks (1-4%)
- 2.7 Project Management Tasks (3-6%)

Level IIIA General Plans Preparation

- 3.1 Contract Documents Tasks (5-9%)
- 3.2 Survey Existing Conditions Tasks (12-16%)
- 3.3 Codes and Standards Tasks (5-9%)
- 3.4 System Layout Tasks (61-67%)
- 3.5 Project Management Tasks (7-11%)

Level IIIB Hydraulics & Water Supply Planning

- 3.1 System Layout Tasks (100%)
- 3.2 Survey Existing Conditions Tasks (12-16%)
- 3.3 Codes and Standards Tasks (5-9%)
- 3.4 System Layout Tasks (61-67%)
- 3.5 Project Management Tasks (7-11%)

Level IV

Currently under development. Coming soon.

Certification Requirements

Level I

Examination: Pass the Level I exam.

Performance Verification: Obtain supervisor verification of all Level I Performance Measures.

Work History: Provide complete, detailed position descriptions and time allocations showing a minimum of 6 months of technical experience with water-based fire protection systems.

Personal Recommendation: Not required.

Major Project: Not required.

Level II

Examination: Pass the Levels I and II exams.

Performance Verification: Obtain supervisor verification of all Level I and II Performance Measures.

Work History: Provide complete, detailed position descriptions and time allocations showing a minimum of 2 years of technical experience with water-based fire protection systems.

Personal Recommendation: Not required.

Major Project: Not required.

Level III

Examination: Pass the Levels I, II and III (including both General Plans Preparation and Hydraulics & Water Supply Planning) exams.

Performance Verification: Obtain supervisor verification of all Level I, II, and III Performance Measures.

Work History: Provide complete, detailed position descriptions and time allocations showing the minimum for Level II, PLUS 3 additional years (for a total of 5 years) of technical experience with water-based fire protection systems.

Personal Recommendation: Obtain recommendation ratings showing a capacity for independent engineering technician responsibilities.

Major Project: Not required.

Level IV

Currently under development. Coming soon.

"...NICET plays a critical role in helping SimplexGrinnell provide the high-quality protection our customers expect and deserve." Bruce Fraser, Director, Industry Relations, SimplexGrinnell