Water / Wastewater Plants

This certification program is designed for engineering technicians who perform the inspection during construction of water/wastewater treatment plants, pumping stations and related buildings and structures. Areas covered include reading and interpreting of plans, specifications and shop drawings; on-site inspection; testing procedures; construction techniques and equipment; and record-keeping and reporting.

The Water/Wastewater Plants program comprises four levels of certification. Level I is designed for trainees and entry-level technicians who perform limited job tasks under frequent supervision, Level I is for technicians who perform routine tasks under general daily supervision, Level III is for intermediate-level technicians who, under little or no daily supervision, work with standards, plans, specifications, and instructions, and Level IV is for independent, senior-level technicians whose work includes supervising others. Certification at Levels II, III, and IV does not require prior certification at the lower level, but it does require meeting the certification requirements of the lower levels.

Requirements for Certification in Water/Wastewater Plants

To become certified in Water/Wastewater Plants you must have sufficient appropriate work experience, successful performance on a written exam based on job tasks, and supervisor verification of job task competency. A personal recommendation is required at Levels III and IV.

- **Work History**
  On your application or the Work History form, you must provide NICET with a detailed description of your responsibilities and job tasks for each position you've held. Carefully read the instructions with the work history form for limitations on acceptable work experience. Your work experience for higher levels must show progressively greater responsibility and technical competence. A two-year or four-year degree in a relevant ABET/TAC-accredited engineering technology program will be accepted as equivalent to 18 months of work experience. (Credit will NOT be awarded for an engineering degree.) To receive credit for a degree, complete the Education Credit Addendum.

- **Written Exam on Water/Wastewater Plants Work Elements**
  In designing this program, a committee of technical experts examined the role of engineering technicians in Water/Wastewater Plants and grouped their typical duties and job tasks into
modules called work elements. The Institute uses work element classifications to set examination requirements and evaluate applicants' job-related knowledge. A listing of these work elements and their descriptions can be found below for each level. On your application, you will select those work elements you wish to include on your exam. You will meet an exam requirement by passing the listed number of elements in each category under your desired certification level.

The Water/Wastewater Plants work elements have been assigned to four progressively more demanding levels of certification. Level I Work Elements cover background knowledge and entry-level job skills typically acquired by students and trainees with at least a few weeks experience in the technical area. Level II Work Elements cover more advanced knowledge and job skills that technicians demonstrate proficiently in the first two years of employment. Level III work elements cover advanced skills based on previous mastery of various Level II work elements. Level IV work elements cover complex technical and/or supervisory situations requiring analytical abilities and previous mastery of the skills covered in Level III work elements. By your tenth year of employment in this technical area, you should be proficient in most Level IV work elements.

The Institute classifies work elements in three types: general, special, and core. General Work Elements are those whose tasks are performed regularly by all technicians in the specialty area. Special Work Elements, however, may be more specific to certain regional areas or specialty areas within the field/subfield. Core work elements are General Work Element tasks that must be mastered before a technician can build on his or her knowledge and advance towards NICET's upper levels of certification.

- **Supervisor Verification of Job Task Competency**
  On your application or on the [Work Element Verification form](#), you must submit your supervisor's verification that you have repeatedly and competently performed the tasks described in the Water/Wastewater Plants Work Element descriptions. By initialing a work element, your verifier attests that he or she has witnessed you perform that work element's tasks repeatedly and competently. All passed elements used to meet an exam requirement must be verified.

- **Personal Recommendation (required for certification at Levels III and IV)**
  Submit a [Technician Personal Recommendation form](#) completed on your behalf by a qualified industry member who is familiar with your technical capabilities and professional character. The form can be completed by NICET Level IV technicians, PE's, and graduates of a related 4-year degree program. A person who serves as your verifier can NOT also be your
recommender. This form expires one year after it is signed. If your recommendation has expired, you must submit a new one before NICET can award you a Level III or Level IV certificate.

- **Certification Requirements for Water/Wastewater Plants**

  The available work elements, major responsibilities, tasks, knowledge, and skills associated with each level of certification can be found in the *Water/Wastewater Plants Program Detail Manual*. Summaries of requirements by level are available by clicking here.

  When selecting work elements for your examination, review the examination requirements chart and the work element listing in your program detail manual. Whenever possible, try to choose the work elements whose descriptions most closely resemble the work you regularly perform. You might want to choose a few extra work elements for each category to increase your chances of meeting the requirement. If you pass more work elements than necessary, you may be able to apply them to the next certification level's exam requirement; then, when you're ready to test for the next level, you'll have a head start. You may test up to 34 work elements per exam sitting.

**Application Forms**

<table>
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<tr>
<th>Application Package (Parts I through IV)</th>
<th>All the forms you need to apply, complete with instructions. For certification at Level III and IV, a Personal Recommendation (Part V) will also be required.</th>
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<td>General Instructions</td>
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<td>Work Element Test Application (Parts I and IV)</td>
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<td>Verification Form (Parts III and IV)</td>
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<td>Personal Recommendation Form (Part V)</td>
<td>The recommender rates your capabilities and professional character</td>
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</tbody>
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**How to Schedule a Test**

Click here to access the database of Work Element Exam Centers and Test Dates.
After processing your application, NICET will send you a confirmation notice with directions to your test center and information about what to bring with you. Two to three weeks after the exam, you will receive your score report in the mail.

After passing the exam requirement, if the evaluation process turns up shortcomings against the other certification requirements, NICET will mail you a CDL with further instructions.

Certification is issued once all requirements are met.

The Institute will notify you of its decision within 90* days of your test date.

*Complicated cases may take significantly longer.

**Fees**

| Work Element Application | $270 |

This fee applies to any exam sitting at a scheduled NICET test session, regardless of the length or type of exam. It is a flat fee because the process to generate, administer, and score an exam is not affected by the length of the exam. The only exception is the Special Recertification Exam; this is a per exam fee even when two exams are scheduled for the same day.

Exams administered at times and places different from scheduled test sessions (see Policy #18) will require an additional fee to cover the additional costs.

Under specific conditions, the Institute will offer a discounted exam fee to educational institutions or government agencies who wish to sponsor mass testing. Contact the Institute at 1-888-476-4238, ext. 106 for further information.

For more information on fees, please click here.

**What is the Test Like?**

The exam will test your knowledge of typical duties and job tasks. The web pages for each program offer descriptions of the areas that will be covered on the exam. The questions, all multiple-choice, are designed to be answered with little difficulty by those who regularly perform the tasks within those covered areas.

NICET test questions are submitted and reviewed by volunteer committees of technical experts. Pilot tests are used to check performance before opening an exam to the public.
For all work element and general knowledge testing programs:

Your test will be custom-made according to the work elements you list on your application. The work element descriptions in the program detail manual will give you a good idea of what material will be tested in each work element. The examination is open-book; you may bring standards, references, and calculators (computers are not allowed). Your time limit will be based on the specific questions on your exam, and will appear in your confirmation letter as well as on the first page of your exam.

At the test center, you will receive a test booklet, a bubble-sheet answer form, and scratch paper. All test questions are multiple-choice and have a single correct answer.

Requirements Applicable to Multiple Certifications

Are you planning to pursue another certification? If you've tested with NICET before, you may have already earned test credit in that new area. A Crossover Listing shows those work elements in the "new" subfield for which credit will be granted as soon as you begin testing in that subfield if you have previously passed certain work elements in the "old" subfield.

The crossover listings for Water and Wastewater Plants are available below. This lists the crossover work element numbers for the first subfield and their corresponding numbers in the second subfield. Check your score reports to find out which of these work elements you have passed.

- Water and Wastewater Plants/Stormwater
- Highway Construction/Water and Wastewater Plants

Water/Wastewater Plants Test Development and Supporting Organizations

Development of this program was initiated in 1988 with technical guidance from the Washington Suburban Sanitary Commission (Laurel, Maryland).

Through a practice analysis, a volunteer panel of experts identified engineering technicians’ job tasks and responsibilities and categorized them into work elements. Volunteers then submitted and reviewed examination questions for each of the work elements. The exam questions were then field tested by public works department employees from the states of Maryland, Arizona, New Jersey, Texas, and Pennsylvania.

This program became operational in 1993. Technical guidance is currently provided by water/wastewater plant construction technicians, supervisors, and subject matter experts from a variety of stakeholder groups, including county and city agencies, metropolitan water and sewer districts and agencies, and private consulting firms.