



Candidate: \_\_\_\_\_

Candidate NICET ID No.: \_\_\_\_\_



### NICET ENGINEERING TECHNICIAN CERTIFICATION Experience Application, Part II: Verifier Data

(Please print legibly or type)

*To be completed by the Verifier only*

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Current employer: \_\_\_\_\_

Daytime phone: \_\_\_\_\_ Email: \_\_\_\_\_

Professional licenses/certifications: \_\_\_\_\_

My observation of the candidate occurred during my employment at:

Current employer

Previous employer: \_\_\_\_\_

My observation of the candidate occurred as a part of my role as:

Candidate's direct supervisor

Candidate's indirect supervisor/manager responsible for the candidate's work results/outcomes

Engineer on one of the candidate's projects

Governmental authority: \_\_\_\_\_

Contract supervisor for:  client, or  general contractor

Other: \_\_\_\_\_

I have (Check all that apply):

directly observed the candidate's work.

directly observed the results of the candidate's work.

received reliable reports from those who have directly observed the candidate's work.

observed the candidate's ability to supervise others who are doing this work.

During what time period were you in the above-indicated relationship with the candidate?

From \_\_\_\_ / \_\_\_\_ to \_\_\_\_ / \_\_\_\_  
Mo. Yr. Mo. Yr.

#### Verifier's Statement:

*I certify that:*

- *I understand and have carefully considered each performance measure that I have verified or will verify.*
- *I have not verified, and will not verify, any performance measure that I have not either personally observed or received reliable and specific reports from one who has personally observed the performance.*
- *I have not signed, and will not sign, any verification statement on a form that does not have the candidate's name at the top.*
- *I have not asked nor will I ask anyone to sign my name in my stead.*

Signature \_\_\_\_\_ Date \_\_\_\_\_ Initials \_\_\_\_\_

Mail the completed Experience Application Package with payment to: NICET, c/o Bank of America, PO Box 418651, Boston, MA 02241-8651  
If this form supplements a previously-paid experience evaluation, send it to: NICET Evaluation, 1420 King Street, Alexandria VA 22314




Candidate: \_\_\_\_\_ Verifier: \_\_\_\_\_

**NICET ENGINEERING TECHNICIAN CERTIFICATION**  
**Experience Application, Part III: Performance Verification**  
 Electrical Power Testing

**Instructions to the Verifier:** For each performance measure listed, please write your initials in the appropriate column to indicate whether the candidate has demonstrated that capability on the job.

**Level I Performance Measures**

<i>The candidate has repeatedly demonstrated an ability to:</i>		Verifier's Initials 
7011101	Recognize, interpret, and correctly respond to various sources of safety-related information on the job site.	
7011102	Recognize and correctly respond to the hazards associated with working with and around various types of electrical power equipment.	
7011103	Identify and wear personal protective equipment correctly, recognizing and avoiding damaged or ill-fitting equipment.	
7011104	Identify the nominal voltage of electrical power equipment (as it pertains to safe approach distances).	
7011105	Select and connect test equipment in order to safely and correctly measure voltage and current.	
7011106	Follow written and verbal instructions related to electrical equipment, test procedures, and safety.	

**Statement of Verification:** I verify that I have a detailed personal knowledge of the candidate's performance related to each of the performance measures that I have initialed above and that, in my best professional judgment and according to government and industry standards and best practices, each initialed statement is true and has been repeatedly and consistently demonstrated.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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<b>Level II Performance Measures</b>		<b>Verifier's Initials</b>
<i>The candidate has repeatedly demonstrated an ability to:</i>		
7013101	Identify, interpret, and apply the standards that govern assigned visual and mechanical inspections.	
7013102	Perform an onsite inspection of a power transformer and accurately record transformer data on a datasheet.	
7013103	Draw an oil sample from a power transformer, in accordance with standards, for dissolved gas and quality analysis.	
7013104	Perform a transformer insulation resistance test.	
7013105	Perform a transformer turns ratio test and calculate the turns ratio.	
7013106	Clean, inspect, and operate the functional components of low- and medium-voltage circuit breakers.	
7013107	Perform a high-current injection test on a low-voltage circuit breaker.	
7013108	Measure the contact resistance and insulation resistance of low- and medium-voltage circuit breakers.	
7013109	Inspect low- and medium-voltage circuit breaker cells for properly working interlocks and stored energy release mechanisms.	
7013110	Perform an overpotential withstand test on a cable.	
7013111	Perform an overcurrent protective relay test with a relay test set.	
7013112	Perform a polarization index test on a motor.	
7013113	Conduct a battery bank inspection.	
7013114	Perform fuse continuity tests.	
7013115	Perform continuity and ground grid tests.	
7013116	Ensure that a circuit is electrically safe in accordance with NFPA 70E.	
7013117	Read, interpret, and follow switching instructions.	
7013118	Identify electrical hazards encountered in the work place and take appropriate action.	
7013119	Select and use proper personal protective equipment for a switching or grounding task.	
7013120	Enter data into an electronic spreadsheet and send it as an email attachment.	
7013121	Convey accurate information about job procedures, requirements, and impacts to the client, and report to the company accurately on work performed, results, recommendations or advice given to the client, and information received from the client that affects either the work performed or future plans.	



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**Level III Performance Measures**

70151XX	The candidate has repeatedly demonstrated an ability to:	 Verifier's Initials	70151XX	The candidate has repeatedly demonstrated an ability to:	 Verifier's Initials
01	Measure an LTC turns-ratio on all tap positions.		15	Inspect, test, and evaluate the operation of a capacitor.	
02	Test transformer protective devices and gauges.		16	Collect an SF6 gas sample for testing.	
03	Test the functionality of circuit breaker interlock devices.		17	Interpret a thermographic survey of a medium or high-voltage electrical power system and accurately report the electrical anomalies identified.	
04	Perform a time/travel analysis of a circuit breaker.		18	Interpret and analyze historical test data for indications of equipment deterioration or failure trends.	
05	Conduct power-factor/dissipation-factor testing of medium and high-voltage transformers, circuit breakers, and cables.		19	Recognize anomalous results; investigate and analyze test procedures and environmental factors to evaluate the validity of the results.	
06	Inspect medium and high-voltage cable and evaluate for correct cable supports, bending radius, lug compressions, and shield terminations.		20	Develop a sequence-of-operations and a switching procedure to provide isolation for one section of a power distribution system.	
07	Perform point-to-point wiring checks, electrical tests, and mechanical checks to evaluate overloads, potential transformers, RTD's, ground fault devices, and zone interlock devices on new switchgear installations.		21	Select appropriate inspections, tests, and test equipment to fulfill a scope of work involving transformers, circuit breakers, switchgear, and cables.	
08	Program relays for CT/PT ratio, significant digits, and any operations specified for a relay protection scheme.		22	Analyze control and protection schemes involving differential, power, and multifunction relays, and other control circuits, and select the inspections, tests, test sequences, and test equipment.	
09	Inspect, test, and evaluate the operation of a differential relay.		23	Develop a worksite safety plan by reviewing the testing plan, surveying site hazards, and gathering facility rules and other site specific safety information.	
10	Use a 3-phase test set to inspect, test, and evaluate each function of a relay.		24	Plan and supervise lock-out, tag-out, and verification of de-energization of circuits.	
11	Inspect, test, and evaluate the operation of standard multifunction relays.		25	Work with the client to plan job requirements, including manpower, time, space, power, PPE, etc., for efficient and productive time on-site.	
12	Inspect, test, and evaluate the accuracy of watt meters, VAR meters, and multifunction power meters.		26	Directly supervise 3 test technicians throughout the safe and correct performance of a scope of work involving inspection and testing of a complete substation or distribution system.	
13	Inspect, test, and evaluate a substation battery system for physical condition, electrical impedance and capacity, and load equalization.		27	Prepare written reports on test results & evaluations that are clear, accurate, thorough, and honest.	
14	Inspect and evaluate grounding bonds, clamps, and welds, and verify proper torquing of bolted connections on a new grounding system installation.				

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If this form accompanies a Test Application Package and payment, send to: NICET, c/o Bank of America, Dept. 0037, Washington DC 20055  
 If this form does NOT accompany a Test Application Package, send to: NICET Evaluation, 1420 King Street, Alexandria VA 22314



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**NICET ENGINEERING TECHNICIAN CERTIFICATION**  
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**Electrical Power Testing**

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<b>Level IV Performance Measures</b>		<b>Verifier's Initials</b>
<b><i>The candidate has repeatedly demonstrated an ability to:</i></b>		
7017101	Evaluate the client's testing requirements to determine the applicable standards, proper test procedures, and required test equipment for a testing project.	
7017102	Evaluate test procedures for, and determine the serviceability of, electrical safety equipment.	
7017103	Develop testing procedures to accurately determine the functionality of power system protection, metering, and controls.	
7017104	Correctly test relay schemes for transmission line protection, breaker failure, generator protection, and metering.	
7017105	Correctly test the communication functions of power system fault data recorders, DCS, RTU, and SCADA systems.	
7017106	Correctly perform and document a variety of electrical tests, as specified by NETA's ATS and MTS standards, for each of the following: <ul style="list-style-type: none"> <li>• power generation systems and equipment;</li> <li>• power transmission systems and equipment; and</li> <li>• power distribution systems and equipment.</li> </ul>	
7017107	Evaluate electrical test data for transformers, regulators, circuit breakers, cables, switchgear, motor control centers, switches, fuses, relays, meters, motors, generators, battery systems, surge arresters, and grounding systems to determine their serviceability.	
7017108	Evaluate proposed repairs, modifications, or upgrades to electrical equipment, for adherence to appropriate industry standards.	
7017109	Evaluate the real-time load data for an equipment installation.	
7017110	Based on project test results and equipment data, determine the serviceability of a power system and any corrective measures needed to meet industry standards.	
7017111	Plan and supervise testing projects that involve two or more crews totaling four or more technicians, and that meet budget, scheduling, and technical requirements.	
7017112	Develop a facility electrical preventative maintenance program that meets the needs of the owner and the specifications of the client, equipment manufacturers, and applicable electrical standards.	



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