



Requirements for Analyst Certification

A. Certification

1. Certified

Each certified analyst is required to perform all QC requirements, including calibrations, standardizations and verifications as detailed in Chapter 7.0 of the [“Ohio EPA Laboratory Manual for Chemical Analyses of Public Drinking Water 2014”](#), for each plant control test method and [“Ohio EPA Laboratory Manual for Microbiological Analyses of Public Drinking Water 2014”](#), for each test method. For chemical certification, each certified analyst must complete drinking water sample analysis at a minimum rate of three days per month for all methods which the analyst is certified. For microbiological certification, each certified analyst must complete drinking water sample analysis at a minimum rate 10% of the routine samples for all methods which the analyst is certified.

2. Operational Certification

Operational certification is defined in rule 3745-89-01 of the OAC as certification granted by the Director for an analyst to perform one or more of the plant control tests for alkalinity, alkalinity stability, chloride, chlorine, chlorite, chlorine dioxide, fluoride, hardness, pH, or turbidity, including daily calibration and standardization but neither including the preparation of standards or reagents, nor the required monthly or quarterly calibration and standardization. Operationally certified analysts may not perform calibrations, standardizations and other QC activities unless otherwise noted in Chapter 8, Section 6.2 of the “Ohio EPA Laboratory Manual for Chemical Analyses of Public Drinking Water 2014”. Each operationally certified analyst must complete drinking water sample analysis at a minimum rate of three days per month for all methods which the analyst is certified.

Operational certification is not available to commercial laboratory personnel or for microbiological drinking water sample analysis.

B. Interim Authorization

1. Interim Authorization for Plant Control Tests

A laboratory with a valid and unexpired certification may apply for interim authorization for an analyst to perform one or more of the plant control tests for pH, turbidity, alkalinity, stability, hardness, fluoride, chloride, chlorine dioxide, chlorite and chlorine, according to the following requirements:

- Interim Authorization will be granted to the applying analyst(s) upon demonstration of acceptable performance in the 20-day parallel testing period. “Acceptable performance” is defined as obtaining results within plus or minus ten per cent of the certified analyst for the plant control test.
- The number of individuals requested for interim authorization by the laboratory may not be more than two.
- A laboratory must submit an application for interim authorization including the following information:

- The name, address and telephone number of the laboratory and of the individual(s) responsible for the laboratory.
- The list of analysts specified on the laboratory's applicable certificates and the plant control tests which each analyst currently performs.
- The list of individuals and the plant control tests for which interim authorization is sought.
- Documentation for each individual on each plant control test requested for interim authorization of at least twenty days of analytical results generated in parallel testing with an analyst included on a certificate for those same plant control tests. The previous certification of an individual to perform plant control tests may be considered for satisfying this requirement.

An on-site survey will be scheduled within six months of an interim authorization. Interim authorization shall remain in effect for a period not to exceed six months unless an extension is granted.

2. Interim Authorization for MMO-MUG (SM 9223) Tests

A laboratory with a valid and unexpired certification may apply for interim authorization for an analyst to perform MMO-MUG (SM 9223) tests, according to the following requirements:

- Interim Authorization will be granted to the applying analyst(s) upon demonstration of acceptable performance. "Acceptable performance" is defined as including seven samples per day totaling at least twenty-one samples, containing no false negatives and no more than one false positive, including the required quality control samples. The results generated in parallel testing must be performed with an analyst included on a certificate for MMO-MUG (SM 9223) tests.
- The number of individuals requested for interim authorization by the laboratory may not be more than two.
- A laboratory must submit an application for interim authorization including the following information:
 - The name, address and telephone number of the laboratory and of the individual(s) responsible for the laboratory.
 - The list of analysts specified on the laboratory's applicable certificates and the plant control tests which each analyst currently performs.
 - The list of individuals and MMO-MUG (SM 9223) tests for which interim authorization is sought.
 - Documentation for each individual requesting interim authorization for MMO-MUG (SM 9223) must include seven samples per day totaling at least twenty-one samples, including the required quality control samples, with results generated in parallel testing with an analyst included on a certificate for MMO-MUG (SM 9223) tests. The previous certification of an individual to perform MMO-MUG (SM 9223) tests may be considered for satisfying this requirement.

An on-site survey will be scheduled within six months of an interim authorization. Interim authorization shall remain in effect for a period not to exceed six months unless an extension is granted.

3. Interim Authorization for New Contaminants and New Methods

Interim authorization for new contaminants and new methods, as defined in rule 3745-89-01 of the OAC, may be granted for certified laboratories following these procedures:

- Interim authorization shall only be available to laboratories which currently have valid certification for the same type of drinking water analysis (microbiological contaminants, inorganic, trace metals, etc.) as the drinking water analyses to be included in the interim authorization.
- In order to be considered for interim authorization, the laboratory must submit an application for interim authorization which includes the following information:
 - The name, address and telephone number of the laboratory and of the individual(s) responsible for the laboratory.
 - Statement of the drinking water analyses and methods for which interim authorization is sought and the analysts to be included in the interim authorization to perform the analyses. The analysts must be individuals already identified on a valid certificate for the laboratory for performing similar analyses or for analyzing the same type of contaminant.
 - Documentation that the laboratory obtained acceptable results within the past twelve months for at least one proficiency test (PT), for each drinking water analysis to be included in the interim authorization.
 - Documentation that a method detection limit study has been completed by the laboratory for each drinking water chemistry analysis to be included in the interim authorization, with the studies indicating the laboratory is capable of meeting any specified analytical reporting requirements.
 - Documentation that the laboratory has successfully passed one microbiological PT set, with the method not approved by Ohio EPA. The test data must be sent directly to the Laboratory Certification Section from the PT provider. The laboratory must pass the PT study with the method for which interim authorization is being sought.
- When granted, the interim authorization must state the individual(s) and drinking water analyses included in the interim authorization and the length of time the interim authorization will remain in effect.
- An on-site survey must be scheduled to verify acceptable performance by the laboratory granted interim authorization. Interim authorization will remain in effect until the on-site survey is completed and certification is granted.