



CODES & STANDARDS
CONFORMITY ASSESSMENT

QHO Operator Certification Application

Applicant: _____

Facility: _____

Email: _____

Telephone: _____

Fax: _____

Provisional Certificate Number: _____

Expiration Date: _____

Facility Contact/Supervisor:

Name: _____

Phone: _____

Title: _____

Email: _____

Documentation of at least six months experience as a hazardous waste incineration operator at the above facility:

Job Title _____

From (mm/yy) _____

To (mm/yy) _____

Describe duties and responsibilities as a control room operator, field operator or supervisor, per the descriptions on page 2 of this form (attach additional sheets if necessary):

The undersigned warrant that the above information is true:

Applicant's Signature

Date

Supervisor's Signature

Date

Control Room Operator (note 1)

Control room operators are normally classified as chief operators, control room operators, senior operators, instrument panel operators, or a similar title. The control room operator monitors and adjusts the operations of the incinerator system. Monitoring and adjusting are done manually or by means of individual loop controllers and indicators, computer control systems, or a combination of devices. The control room operator must understand how each control loop functions and the impact that changes in set points to controllers have in changing incinerator operating conditions. The control room operator must understand how different waste feed streams affect the operation of the incinerator components and the unit as a whole. In addition, the control room operator will normally have the responsibility to communicate with supervisory and incoming personnel regarding the status of operations. Examples of specific duties and associated understandings are shown below.

Duties of Control Room Operators

Monitors and Adjusts	Understands
Combustion and air pollution control equipment	Unit operation performed by each component; adjustments to operational conditions
Results of process analyzers which analyze key process stream compositions	Causes of fluctuations; adjustments to operational conditions
Alarms	Causes of alarms; adjustments to restore operations
Waste feed shutdown	All safety and environmental process interlocks
Regulatory parameters	Conditions of permit to assure continuous operation within limits; data acquisition and record keeping requirements

Field Operator

The field operator normally has responsibility for waste handling and receiving, field equipment operation, and residue handling. Field operator's duties are defined as follows:

Waste Receiving and Handling. The field operator needs knowledge and understanding of the types of waste streams being handled. The operator must follow established procedures to assure that only those wastes approved for incineration are fed to the incinerator. The field operator needs to understand thoroughly the impact of waste feed rate (e.g., mass, metal, halogen, and heat content) on the incinerator process. The field operator needs knowledge and understanding of personal safety requirements, including the use of prescribed personal protective equipment. A full understanding of all implications of removing waste from a container in terms of material stability as it relates to either directly feeding the material to the incinerator or removing the material from the container for storage or mixing is required.

Field Equipment Operation. The field operator needs knowledge and understanding of equipment location including instrumentation, equipment operation, and equipment control, for the purpose of operating the equipment from the field where required and assisting in the identification of problems. The field operator needs an understanding of air pollution control equipment and effluent treatment systems operations, and the impact of incineration operations on these systems.

Residue Handling. The field operator needs to understand the mechanics of the ash removal system, including ash receiving containers.

Supervisors

Direct supervisors of the control room operator or field operator may be classified as first line supervisory operating engineers, unit shift supervisors, forepersons, etc. These individuals are responsible for management of those operators directly involved with the unit operations and charging of wastes to the incineration unit.

Test Content

As stated in the QHO standard (2.1), "the individuals involved typically perform the duties of control room and field operators - - directly involved with hazardous waste incinerator operation". Accordingly, the subject matter of the oral examination will include both control room operation and field operation regardless of an applicant's typical assigned duties. A list of the knowledge areas (and sub-areas) that will be addressed during the test is provided below:

QHO Oral Exam

Knowledge Areas and Sub-areas

- 1.0 Material Handling and Storage Operations
 - 1.1 Waste characterization/verification for receipt and storage
 - 1.2 Liquid handling and storage systems
 - 1.3 Solid handling and storage systems

- 2.0 Combustion system operation
 - 2.1 Combustion chamber configuration and throughput
 - 2.2 Combustion chamber operation
 - 2.3 Liquid injection nozzles
 - 2.4 Solid waste feed system
 - 2.5 Waste feed analysis
 - 2.6 Safety considerations
 - 2.7 Controls

- 3.0 Waste heat & boiler operations (if applicable at facility)
 - 3.1 Equipment
 - 3.2 Normal conditions and operation
 - 3.3 Startup and shutdown procedures

- 4.0 Air pollution control system operation
 - 4.1 Equipment layout
 - 4.2 Safety procedures
 - 4.3 Permit considerations
 - 4.4 Operating procedures
 - 4.5 Air emissions monitoring instrumentations

- 5.0 Residual management
 - 5.1 Solid residual management
 - 5.2 Liquid residual management
 - 5.3 Residual management regulatory requirements

- 6.0 Environmental requirements - general guidance
 - 6.1 General facility conditions
 - 6.2 Conditions for storage in containers and waste receiving / unloading areas
 - 6.3 Conditions for storage tanks and waste feed tanks
 - 6.4 Inspection frequency

A candidate must pass each knowledge area (except for area 3, depending upon facility). Within each area, a candidate must demonstrate knowledge of 2 sub-areas.

