

GENERAL DESCRIPTION OF CLASS

The BOILER INSPECTOR inspects boilers and pressure vessels and other types of strongly constructed closed vessels in the boiler industry for compliance with safety standards; investigates safety issues; enforces regulations; stops operations of unsafe installations; and provides technical information to the public, owners, and manufacturers.

DISTINGUISHING FEATURES

This position is a single classification and not currently part of a series.

DUTIES AND RESPONSIBILITIES

The duties listed below are not inclusive but characteristic of the type and level of work associated with this class. Individual positions may perform all or some combination of the duties listed below as well as other related duties.

1. Inspection

Inspects construction and installation authorized by permits for compliance with applicable codes, laws, rules, and regulations pertaining to various types of steam boilers and shops including steam generators, water tube boilers, fire tube boilers, low pressure steam boilers, high pressure steam boilers which involves verifying safety valve capacity, code construction calculations, allowable working pressures, tensile strengths, stress values, and corrosion allowances. Some employees in this class will inspect manufacturing shops, nuclear reactors, and nuclear code shops.

Inspects for compliance with applicable codes, laws, rules, and regulations various types of unfired pressure vessels including air tanks, digesters, vulcanizers, heat exchangers, jacketed kettles, retorts, hot water tanks, hydro-pneumatic tanks, diffusers, refrigeration vessels, hospital sterilizers which pressurize air, oil and water, air and oil, steam, manufactured gas, or chemicals and delivers energy for power, processing, or heating purposes.

Approves or rejects boiler and pressure vessel plans, shop drawings, and other pertinent data for proposed boiler and pressure vessel installations or alterations to verify compliance with applicable codes, laws, rules, and regulations.

Reinspects installations after corrections have been made. Documents inspections on inspector reports and daily activity logs.

2. Enforcement

Analyzes information obtained from inspections and compares with applicable codes, laws, rules, and regulations to ensure that all safety requirements have been met.

Completes and signs inspection reports approving boiler operations. Communicates minor or non-life threatening violations by posting a red tag to specify the violation which needs correction. Communicates major or life threatening violations by issuing a stop work order, or Boiler and Pressure

Vessel Shut Down Notice. Appears as court witness when necessary.

Drives through assigned geographical area to verify that construction activity is properly authorized by the applicable laws, rules, codes, and regulations, and that tradespersons are properly licensed.

3. Investigations

Investigates violations, injurious accidents, explosions, and complaints reported by industry people or the public, to determine whether regulations and statutes have been violated; accumulates evidence pertaining to investigations for use at hearings.

4. Education and Information

Answers general inquiries from the public and contractors on the requirements of the boiler safety codes, laws, rules, and regulations.

Reviews and applies changes in laws and codes to inspections and investigations.

Gives technical training relevant to boiler and pressure vessel codes, laws, rules, and regulations to inspectors, contractors, and manufacturers.

Participates in conferences and training sessions to learn new rules and changes in code.

RELATIONSHIPS WITH OTHERS

Employees in this class communicate several times per day with boiler owners, operators, repair firms, manufacturers, and contractors by telephone and in person to schedule and conduct inspections, provide code and regulation information, receive and resolve complaints, and make recommendations.

Employees in the class have occasional telephone contact with agency code experts to obtain direction in unusual circumstances or for interpretation of vague language in the code.

SUPERVISION RECEIVED

Work performed by employees in this class is governed by the state laws, statutes, and rules, the American Society of Mechanical Engineers Codes, ANSI Code, and the National Board of Boiler and Pressure Vessels Code.

Employees in the class receive work assignments and general direction through periodic contact by telephone and in person with the lead worker or supervisor. Work is reviewed by the lead worker or supervisor by reading daily reports, compliance reports, reviewing permit and license activity, occasional observations, occasional communication with the industry being served, and by spot-checking inspections for accuracy. The supervisor conducts a formal evaluation of the work at least annually through the performance appraisal process, and through formal annual shop audits.

GENERAL INFORMATION

Employees in this class walk, and climb in boiler shops and other buildings, and perform internal inspections

by crawling inside boilers.

KNOWLEDGE AND SKILLS (KS)

General knowledge of laws, codes, regulations, and procedures governing the boiler industry.
General knowledge of boiler combustion, i.e., fuel/air mixtures, etc.
General knowledge of nondestructive testing procedures.
General knowledge of welding procedures.
General knowledge of personal safety in workplace procedures.
Basic knowledge of boiler water chemistry, blowdown procedures, etc.

Skill in recognizing noncompliance and procedural irregularities.
Skill in reading boiler plans, shop drawings, and diagrams.
Skill in communicating verbally and in writing boiler codes, regulations, and statutes.
Skill in preparing technically narrative reports.
Skill in compiling data.
Skill in consolidating notes and observations into final reports.
Skill in organizing and carrying out work.
Skill in scheduling field appointments for maximum time efficiency.
Skill in interpersonal communications.

NOTE: The KNOWLEDGE and SKILLS are required for initial consideration. Some duties performed by positions in this class may require different KS's. No attempt is made to describe every KS required for **all** positions in this class. Additional KS requirements will be explained on the recruiting announcement.

Adopted 11/92

Revised