SERIES PURPOSE:
The purpose of the welder occupation is to join metal parts or other weldable materials using welding equipment & related processes in order to repair, maintain & fabricate parts of rolling stock (e.g., trucks), equipment, machinery &/or bridge structures.

At the lower level, incumbents perform the full range of welding operations. At the higher level, incumbents serve as lead workers (e.g., provide work direction & training) over skilled welders &/or inmates & perform the full range of welding operations.

CLASS TITLE: 
Welder 1

CLASS NUMBER: 
52321

EFFECTIVE DATE:
03/26/1990

CLASS CONCEPT:
The full performance level class works under general supervision & requires considerable knowledge of welding equipment processes & blueprint reading in order to weld, braze, solder, cut, temper, heat & shape metals & other weldable materials.

CLASS TITLE: 
Welder 2

CLASS NUMBER: 
52322

EFFECTIVE DATE:
04/04/1993

CLASS CONCEPT:
The advanced level class works under direction & requires thorough knowledge of welding equipment processes & blueprint reading in order to serve as lead worker (e.g., provide work direction & training) over skilled welders &/or inmates & weld, braze, solder, cut, temper, heat & shape metals & other weldable materials.
EFFECTIVE DATE
03/26/1990

JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)
Operates various welding & related equipment (e.g., acetylene torch, electric arc welder) to heat & shape metals, layout, cut & fit materials for welds, welds machinery, equipment, water lines, steam lines &/or bridge structures & repairs, performs routine maintenance & fabricates parts for rolling stock, machinery, equipment &/or bridge structures.
Repairs automotive & related equipment (i.e., brakes, lights & tires), repairs equipment requiring use of lathe, drill press, grinders, metal saws & related machine tools & sharpens tools.

MAJOR WORKER CHARACTERISTICS:
Knowledge of welding technology; blueprint reading; federal & professional welding regulations, policies & procedures (e.g., American Welding Society safety standards, OSHA); state/departmental/agency regulations, policies, procedures*; addition, subtraction, multiplication, division, fractions & percentages. Skill in welding; welding & related equipment operation (e.g. acetylene torch, electric arc welder, drill press, lathe, grinder); light auto & truck equipment maintenance/repair (e.g., lights, tires). Ability to carry out detailed but basic written or oral instructions; deal with problems involving several variables within familiar context; stand, walk & bend continuously; lift between 10-100 lbs. repeatedly; move limbs/fingers easily to perform manual function; move whole body in continuous or heavy labor.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:
12 mos. trg. or 12 mos. exp. in welding & use of related equipment; 1 course or 3 mos. exp. in blueprint reading; 1 course or 3 mos. exp. in automotive & related equipment repair; formal education in arithmetic that includes addition, subtraction, multiplication, division, fractions & percentages.

-Or equivalent of Minimum Class Qualifications For Employment noted above.

TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:
Not Applicable.

UNUSUAL WORKING CONDITIONS:
May be required to work overtime; subject to exposure to fumes, dust, heat & noise; subject to inclement weather; subject to burns, cuts & abrasions; may work on scaffolding; may work on bridges.
CLASS TITLE: Welder 2  
CLASS NUMBER: 52322  
BARGAINING UNIT: 06  

EFFECTIVE DATE: 04/04/1993  

JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)
Serves as lead worker (e.g., provides work direction & training) over skilled welders &/or inmates engaged in welding, soldering, cutting, brazing & tempering metals & other welding related duties.

Operates various welding & related equipment (e.g., acetylene torch, electric arc welder) to heat & shape metals, lay out, cut & fit materials for welds, welds machinery, equipment, water lines, steam lines &/or bridge structures & repairs, performs routine maintenance & fabricates parts for rolling stock, machinery, equipment &/or bridge structures.

Performs special project welding, orders welding related supplies & materials, maintains supply inventory & keeps job records.

MAJOR WORKER CHARACTERISTICS:
Knowledge of welding technology; blueprint reading; bookkeeping*; inventory control*; employee training & development*; federal & professional welding regulations, policies & procedures (e.g., American Welding Society safety standards; OSHA); state/departmental/agency regulations, policies, procedures*; addition, subtraction, multiplication, division, fractions & percentages. Skill in welding; welding & related equipment operation (e.g., acetylene torch, electric arc welder, drill press, lathe, grinder). Ability to carry out detailed but basic written or oral instructions; deal with problems involving several variables within familiar context; stand, walk, bend continuously; lift between 10-100 lbs. repeatedly; move limbs/fingers easily to perform manual functions repeatedly; move whole body in continuous or heavy labor.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:
18 mos. trg. or 18 mos. exp. in welding & use of related equipment; 1 course or 3 mos. exp. in blueprint reading; formal education in arithmetic that includes addition, subtraction, multiplication, division, fractions & percentages.

-Or 6 mos. exp. as Welder 1, 52321.

-Or equivalent of Minimum Class Qualifications For Employment noted above.

TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:
Not Applicable

UNUSUAL WORKING CONDITIONS:
May be required to work overtime; subject to exposure to fumes, dust, heat & noise; subject to inclement weather; subject to burns, cuts & abrasions; may work on scaffolding; may work on bridges.