

BU Job Series Matrix

Job Family: : Physical Environmental Services	Job Series: Pipefitter	Job Series Code: X29
Job Series Summary: The Pipefitter job series describes positions that work in Facilities Operations and Engineering and perform installation, maintenance, repair and/or modification of the various piping systems. Such piping systems include low conductivity water, pneumatic, gas, sanitary, and water systems. There are three levels in the series: Pipefitter, Pipefitter Specialist, and Pipefitter Lead. This classification series may be distinguished from the Plumber series by the broader range and greater technical complexity of the piping systems and sizes of pipes worked on. Pipefitters must use journey-level plumbing skills in the performance of their duties; however, these duties require a more extensive knowledge of water, pneumatic and gas systems than normally associated with the Plumber series.		
Job Title: Pipefitter	Job Title: Pipefitter Specialist	Job Title: Pipefitter Lead
Job Classification Code: 8428	Job Classification Code: 8430	Job Classification Code: 8429
Pay Range: A37	Pay Range: A39	Pay Range: A41
Exemption Classification: Non-exempt	Exemption Classification: Non-exempt	Exemption Classification: Non-exempt
Effective/Revision Date: 08/10/2018	Effective/Revision Date: 08/10/2018	Effective/Revision Date: 08/10/2018
Job Responsibilities	Job Responsibilities	Job Responsibilities
• Pipefitters work primarily from verbal instruction, but also from building plans, sketches, and industry standards. Workers are expected to establish priorities for various phases of their work assignments. Work may be reviewed by the supervisor or Lead periodically or upon completion. • When required to work in hazardous areas, which can involve exposure to high voltage, caustics, acids, and/or radioactivity, Pipefitters must work in accordance with proper safety procedures.	• Independently works on repair installation and welding of stainless steel and carbon steel pipe using Tungsten Inert Gas (TIG), and Shielded Metal Arc Welding (SMAW).	• Lead and direct the work of both levels of Pipefitters and occasionally other related technical. • Employees at this level do not have supervisory authority over other employees and are not expected to exercise independent judgment on final decisions regarding quality or quantity of work produced by such employees, or personnel actions such as hiring, promotion, discharge or disciplinary measures.
Characteristic Duties The duties listed under this section are designed to provide a representative sampling of key tasks and/or responsibilities associated with the job. They are not intended to be a complete list of all the duties performed by employees in the classification.	Characteristic Duties The duties listed under this section are designed to provide a representative sampling of key tasks and/or responsibilities associated with the job. They are not intended to be a complete list of all the duties performed by employees in the classification.	Characteristic Duties The duties listed under this section are designed to provide a representative sampling of key tasks and/or responsibilities associated with the job. They are not intended to be a complete list of all the duties performed by employees in the classification.
• Install, repair, maintain and modify various systems, including water treatment plant, water filtration, cooling tower water, and circulation, and domestic water systems and sanitary systems. • Install, maintain and modify the instrumentation for these systems, including flow meters, pressure differential meters, and temperature gauges. • Install, repair, maintain and modify the piping for water systems, such as low conductivity and de-ionized water systems and pneumatic systems. Ensure the integrity of such systems.	• Perform all position welding (down hand and up hand) in a variety of locations, using Tungsten Inert Gas (TIG) or Shielded Metal Arc Welding (SMAW) processes. • Cut and fit carbon steel pipe using oxyacetylene (OA) processes. • Fabricate pipe supports and other ancillary components. • Read and interpret weld symbols. • May perform any of the duties described in the Pipefitter specification or other duties as assigned.	• Oversee work in progress to ensure accuracy, completion, and that all safety precautions are being observed for the safety of the Pipefitters and Pipefitter Specialists as well as other individuals at SLAC. • Responsible for keeping a supervisor advised of work progress, problems, safety issues and other significant information that directly affects operation. • Assists supervisor in reviewing plans for new construction and renovation projects. • Provides technical advice to workers as needed, including both Pipefitters and Pipefitter Specialists.

	• Adhere to safety rules.	• May order tools or parts as needed.
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• Install, modify and maintain fire protection systems including fire mains, building sprinklers, fire hydrants, and halon and deluge systems. • Install, modify and maintain natural gas and processed gas systems including nitrogen, argon, helium, hydrogen, special mixtures, and explosive gases. • Flush and purge all systems, including low conductivity water systems, radioactive water systems, and magnet and power-supply cooling systems. • Install, maintain and modify water cooling for high voltage power supplies, shunts, chokes, and electrical cables. • Order materials needed for various assignments. • Work on plastic, galvanized, copper, brass, cast iron, hose, stainless steel, and black iron piping varying in size. • Perform brazing, soldering, or some basic welding as needed to connect metal piping materials. • Adhere to safety rules.		• Assign and explain tasks to workers based on instructions specifications received from supervisor. • Inspect work for conformance with specifications. • Train employees to meet quality and quantity standards. • Advise supervisor of work progress. • Promote adherence to safety rules. • May perform any of the duties described in the Pipefitter Specialist specification or other duties as assigned.
Minimum Education and Experience Required	Minimum Education and Experience Required	Minimum Education and Experience Required
Pipefitters must have completed a state or federally recognized apprenticeship program or an equivalent combination of education and experience, and have at least 3 years work experience in the plumbing/pipefitting trade.	In addition to the minimum education and experience required for the Pipefitter, the Pipefitter Specialist must have at least 5 years work experience in the plumbing/pipefitting trade.	In addition to the in addition to the minimum education and experience required for the Pipefitter, and Pipefitter Specialist, the Pipefitter Lead must have at least 8 years work experience in the plumbing/pipefitting trade.
Minimum Qualifications	Minimum Qualifications	Minimum Qualifications

• Ability to read and understand Uniform Plumbing Code. • Must have extensive working knowledge of water, pneumatic, gas, and sanitary systems. • Experience in assembling, fabricating installing and supporting various pipe/plumbing systems following engineering sketches, diagrams, and prints. • Experience with industrial plumbing fittings and fixtures. • Be able to move or install large pipe and work at heights. • Work in compliance with building codes and industry standards and various safety procedures. • Demonstrated experience in the use of all hand and power tools of the plumbing trade, including the ability to braze and solder copper and brass pipe and fittings	• In addition to the qualifications for the Pipefitter, the Pipefitter Specialist must be certified as a welder and practice welding safety principles in accordance with OSHA CFR 1910 and 1926. • Certification may be demonstrated by testing and/or apprenticeship outside of SLAC, or by successfully passing certification testing at SLAC.	• In addition to the qualifications listed for the Pipefitter and Pipefitter Specialist, the Pipefitter Lead position requires: • Specialized trade/craft knowledge of plumbing and piping systems • Knowledge of SLAC process systems, e.g. water, air, gas, etc. • Ability to lead and promote good working relationships with other employees • Ability to provide guidance and lead others. • Ability to train new Pipefitters and Pipefitter Specialists on established procedures and to provide technical advice to workers as needed.
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• If working in hazardous areas, involving exposure to high voltage, caustics, or radioactivity, must know and apply proper safety procedures and SLAC's lockout procedures for electrical and mechanical equipment. • Must be able to complete SLAC ES&H required training.		
Certificates and Licenses Required	Certificates and Licenses Required	Certificates and Licenses Required
• Valid California Non-commercial Class C driver's license. • Must be able to pass required welding certification	• Valid California Non-commercial Class C driver's license. • Must be certified welder: steel pipe, stainless steel pipe, structural (Re certification supplied by SLAC)	• Valid California Non-commercial Class C driver's license. • Must be certified welder: steel pipe, stainless steel pipe, structural (Re certification supplied by SLAC)
Physical Requirements	Physical Requirements	Physical Requirements

• Ability to obtain and maintain a California Non-commercial Class C Driver's license. • Frequently stand/walk, climb (ladders, scaffolds, or other), twist/bend, stoop/squat, reach/work above shoulders, grasp forcefully. • Occasionally perform seated work, kneel/crawl, climb (ladders, scaffolds, or other) perform desk-based computer tasks, use telephone, sort parts, scrub/sweep/mop. • Frequently lift/carry/push/pull object weighing >40 pounds. • Occasionally operate foot and/or hand controls. • Must be able to operate welding machine, forklifts, manlifts and other powered platforms. • Must be able to meet the SLAC Activity Training and Authorization (ATA) requirements.	• Ability to obtain and maintain a California Non-commercial Class C Driver's license. • Frequently stand/walk, climb (ladders, scaffolds, or other), twist/bend, stoop/squat, reach/work above shoulders, grasp forcefully. • Occasionally perform seated work, kneel/crawl, climb(ladders, scaffolds, or other) perform desk-based computer tasks, use telephone, sort parts, scrub/sweep/mop. • Frequently lift/carry/push/pull object weighing >40 pounds. • Occasionally operate foot and/or hand controls. • Must be able to operate welding machine, forklifts, manlifts and other powered platforms. • Must be able to meet the SLAC Activity Training and Authorization (ATA) requirements.	• Ability to obtain and maintain a California Non-commercial Class C Driver's license. • Frequently stand/walk, climb (ladders, scaffolds, or other), twist/bend, stoop/squat, reach/work above shoulders, grasp forcefully. • Occasionally perform seated work, kneel/crawl, climb (ladders, scaffolds, or other) perform desk-based computer tasks, use telephone, sort parts, scrub/sweep/mop. • Frequently lift/carry/push/pull object weighing >40 pounds. • Occasionally operate foot and/or hand controls. • Must be able to operate welding machine, forklifts, manlifts and other powered platforms. • Must be able to meet the SLAC Activity Training and Authorization (ATA) requirements.
Working Conditions	Working Conditions	Working Conditions
• May be required to work overtime, work at unusual work hours evenings and weekends, including Holidays, must be available for an on call duty and rotation for off shift responses as needed. May work in in inclement weather conditions. • May be exposed to high voltage electricity, lasers, radiation or electromagnetic fields, noise > 80dB TWA, heavy metals (e.g. lead, beryllium), allergens/Biohazards/Chemicals /Asbestos, • May work in confined spaces; work at heights 4-10 feet, drive a vehicle, and may be exposed to hot/cold temperature.	• May be required to work overtime, work at unusual work hours evenings and weekends, including Holidays, must be available for an on call duty and rotation for off shift responses as needed. May work in in inclement weather conditions. • May be exposed to high voltage electricity, lasers, radiation or electromagnetic fields, noise > 80dB TWA, heavy metals (e.g. lead, beryllium), allergens/Biohazards/Chemicals /Asbestos, • May work in confined spaces; work at heights 4-10 feet, drive a vehicle, and may be exposed to hot/cold temperature.	• May be required to work overtime, work at unusual work hours evenings and weekends, including Holidays, must be available for an on call duty and rotation for off shift responses as needed. May work in in inclement weather conditions. • May be exposed to high voltage electricity, lasers, radiation or electromagnetic fields, noise > 80dB TWA, heavy metals (e.g. lead, beryllium), allergens/Biohazards/Chemicals /Asbestos, • May work in confined spaces; work at heights 4-10 feet, drive a vehicle, and may be exposed to hot/cold temperature.

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Work Standards	Work Standards	Work Standards
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• When conducting university business, must comply with the California Vehicle Code and Stanford University driving requirements. • Interpersonal Skills: Demonstrates the ability to work well with Stanford colleagues and clients and with external organizations. • Promote Culture of Safety: Demonstrates commitment to personal responsibility and value for safety; communicates safety concerns; uses and promotes safe behaviors based on training and lessons learned. • Subject to and expected to comply with all applicable University policies and procedures, including but not limited to the personnel policies and other policies found in the University's Administrative Guide, http://adminguide.stanford.edu/ and the appropriate collective bargaining agreement at https://cardinalatwork.stanford.edu/hr processes-policies/labor-relations collective-bargaining	• When conducting university business, must comply with the California Vehicle Code and Stanford University driving requirements. • Interpersonal Skills: Demonstrates the ability to work well with Stanford colleagues and clients and with external organizations. • Promote Culture of Safety: Demonstrates commitment to personal responsibility and value for safety; communicates safety concerns; uses and promotes safe behaviors based on training and lessons learned. • Subject to and expected to comply with all applicable University policies and procedures, including but not limited to the personnel policies and other policies found in the University's Administrative Guide, http://adminguide.stanford.edu/ and the appropriate collective bargaining agreement at https://cardinalatwork.stanford.edu/hr processes-policies/labor-relations collective-bargaining	• When conducting university business, must comply with the California Vehicle Code and Stanford University driving requirements. • Interpersonal Skills: Demonstrates the ability to work well with Stanford colleagues and clients and with external organizations. • Promote Culture of Safety: Demonstrates commitment to personal responsibility and value for safety; communicates safety concerns; uses and promotes safe behaviors based on training and lessons learned. • Subject to and expected to comply with all applicable University policies and procedures, including but not limited to the personnel policies and other policies found in the University's Administrative Guide, http://adminguide.stanford.edu/ and the appropriate collective bargaining agreement at https://cardinalatwork.stanford.edu/hr processes-policies/labor-relations collective-bargaining
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