

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
<p>Operate/maintain/repair/troubleshoot pneumatic and DDC controls <50v – OR - not exposed to energized equipment in public/classroom/ office areas.</p>	<ul style="list-style-type: none"> • Airborne contaminants (such as occupant concerns, odors, mold) • Biological hazards (such as sanitary sewer leaks, legionella) • Compressed gasses (such as solder iron fuel) • Confined spaces (such as crawl spaces, ceiling plenums) • Ergonomic problems such as lifting, repetitive motion, awkward posture • Hazardous chemicals (such as chemicals in hydronic systems) • Hazardous energy (mechanical, heat, pressure (gas / liquid lines)) • Insufficient lighting • Noise • Overhead equipment • Pedestrian traffic • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Scaffolding • Vermin (such as bird or rodent feces) • Work off ladders 	<ul style="list-style-type: none"> • Aerial lift • Asbestos work plan (if applicable) • Barricades/signs/spotter (if applicable) • Building system shutdown • Confined space permit (as needed) • Check-in with the department contact person prior to work • Ensure work area is clear from spills and trip hazards • Follow industry safety standards for operating power/hand tools • Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape • Hot Work Permit (ie soldering) if applicable • Lead work plan (if applicable) • Lockout procedure • Location of exits • Location of fire extinguisher • Location of first aid kit • Pest Contractor – as needed • Safety Data Sheets (SDS) for chemical and products • Use temporary lighting (such as head lamps) • Water Treatment Plan 	<p>Task Specific Training</p> <ul style="list-style-type: none"> • Asbestos <1% & Lead Work Practices • Audiometric Hearing Test • Back Protection & Lifting Safety Online • Bloodborne Pathogens for Non-Lab • Compressed Gas Safety • Confined Space Awareness • Department specific training • Ergonomic Online training (optional) • Fall Protection • Fire Extinguisher Hands On • Fire Extinguisher Online • HazCom/GHS training • Hearing Protection/Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lift Training • Lockout/Tagout Safety • Monthly shop safety meetings on PPE and SDS • Respirator Training & Fit Test • Scaffold Safety • Supv LOTO Field Evaluation <p>PPE</p> <ul style="list-style-type: none"> • Bump cap - as needed • Dust mask - as needed • Electrically rated tools • Gloves – as needed • Hearing protection - as needed • Impact glasses/goggles – as needed • LOTO locks or tags • Personal fall restraint/arrest equipment • Substantial footwear • Any other PPE as specified by the department

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
<p>Operate/maintain/repair/troubleshoot pneumatic and DDC controls when working on exposed equipment that is >50v in public/classroom/office areas</p>	<ul style="list-style-type: none"> • Airborne contaminants (such as occupant concerns, orders, mold) • Biological hazards (such as sanitary sewer leaks, legionella) • Compressed gasses (such as solder gun fuel source) • Confined spaces (such as crawl spaces, ceiling plenums) • Electrically energized equipment • Ergonomic problems such as lifting, repetitive motion, awkward posture • Hazardous chemicals (such as chemicals in hydronic systems) • Hazardous energy (mechanical, heat, pressure (gas / liquid lines)) • Heat stress • Insufficient lighting • Noise • Overhead equipment • Pedestrian traffic • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Scaffolding • Vermin (such as bird or rodent feces) • Work off ladders 	<ul style="list-style-type: none"> • Aerial lift • Asbestos work plan (if applicable) • Barricades/signs/spotter (if applicable) • Building system shutdown • Check-in with the department contact person prior to work • Confined space permit (if applicable) • Energized electrical work permit & work plan – as needed • Ensure work area is clear from spills and trip hazards • Follow industry safety standards for operating power/hand tools • Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape • Hot Work Permit (ie soldering) if applicable • If hot, drink water and take necessary rest breaks • Lead work plan (if applicable) • Lockout procedure • Location of exits • Location of fire extinguisher • Location of first aid kit • Pest Contractor – as needed • Safety Data Sheets (SDS) for chemical and products • Use portable refrigerant monitor where needed • Use temporary lighting (such as head lamps) • Water treatment plan 	<p>Task Specific Training</p> <ul style="list-style-type: none"> • Asbestos <1% & Lead Work Practices • Audiometric Hearing Test • Back Protection & Lifting Safety Online • Bloodborne Pathogens for Non-Lab • Compressed Gas Safety • Confined Space Awareness • Department specific training • Ergonomic Online training (optional) • Fall Protection • Fire Extinguisher Hands On • Fire Extinguisher Online • HazCom/GHS training • Hearing Protection /Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lift Training • Lockout/Tagout Safety • Monthly shop safety meetings on PPE and SDS • NFPA 70E Arc Flash/Electrical Safety • Respirator Training & Fit Test • Scaffold Safety • Supv LOTO Field Evaluation <p>PPE</p> <ul style="list-style-type: none"> • Arc Flash clothing – as required per NFPA 70E • Bump cap -as needed • Dust mask -as needed • Electrically rated tools • Gloves – as required per NFPA 70E • Gloves – as required • Head cover – as required per NFPA 70E • Hearing protection -as needed • Impact goggles – as needed • Impact goggles – as required per NFPA 70E • LOTO locks or tags • Personal fall restraint/arrest equipment • Substantial footwear • Substantial <u>leather</u> footwear – as required per NFPA 70E • Any other PPE as specified by the department

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
<p>Operate/maintain/repair/troubleshoot pneumatic and DDC controls <50v – OR - not exposed to energized equipment in mechanical areas</p>	<ul style="list-style-type: none"> • Airborne contaminants (such as occupant concerns, odors, mold, refrigerant leak) • Asbestos exposure • Biological hazards (such as sanitary sewer leak, cooling tower – legionella) • Compressed gasses (such as solder gun fuel source) • Confined spaces • Ergonomic problems such as lifting, repetitive motion, awkward posture • Hazardous chemicals (such as chemicals in hydronic systems) • Hazardous energy (mechanical, heat, pressure (gas / liquid lines)) • Heat stress • Noise • Overhead equipment • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Scaffolding • Vermin (such as rats, birds, rodents feces) • Work off ladders 	<ul style="list-style-type: none"> • Aerial lift • Asbestos work plan (if applicable) • Barricades/signs/spotter (if applicable) • Building system shutdown • Check-in with the department contact person prior to work • Confined space permit (if applicable) • Ensure work area is clear from spills and trip hazards • Follow industry safety standards for operating power/hand tools • Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape • Hot Work Permit (ie soldering) if applicable • If hot, drink water and take necessary rest breaks • Lead work plan (if applicable) • Lockout procedure • Location of exits • Location of fire extinguisher • Location of first aid kit • Pest Contractor – as needed • Refrigerant leak work plan (if applicable) • Safety Data Sheets (SDS) for chemical and products • Use portable refrigerant monitor where needed • Use temporary lighting (such as head lamps) • Water treatment plan • Cooling tower work practice – if applicable 	<p>Task Specific Training</p> <ul style="list-style-type: none"> • Asbestos <1% & Lead Work Practices • Audiometric Hearing Test • Back Protection & Lifting Safety Online • Bloodborne Pathogens for Non-Lab • Compressed Gas Safety • Confined Space Awareness • Confined Space Entry/Hands On (such as Columbia Lift) – as needed • Department specific training • Ergonomic Online training (optional) • Fall Protection • Fire Extinguisher Hands On • Fire Extinguisher Online • HazCom/GHS training • Hearing Protection /Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lift Training • Lockout/Tagout Safety • Monthly shop safety meetings on PPE and SDS • Refrigerant Monitoring • Respirator Training & Fit Test • Scaffold Safety • Supv LOTO Field Evaluation <p>PPE</p> <ul style="list-style-type: none"> • Bump cap -as needed • Dust mask -as needed • Electrically rated tools • Gloves – as needed • Hearing protection -as needed • Impact glasses/goggles – as needed • LOTO locks or tags • Personal fall restraint/arrest equipment • Substantial footwear

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
<p>Operate/maintain/repair/troubleshoot pneumatic and DDC controls when working on exposed equipment that is >50v in mechanical areas</p>	<ul style="list-style-type: none"> • Airborne contaminants (such as occupant concerns, odors, mold, refrigerant leak) • Asbestos exposure • Biological hazards (such as sanitary sewer leak, legionella) • Compressed gasses (such as solder gun fuel source) • Confined spaces • Electrically energized equipment • Ergonomic problems such as lifting, repetitive motion, awkward posture • Hazardous chemicals (such as chemicals in hydronic systems) • Hazardous energy (mechanical, heat, pressure (gas / liquid lines)) • Heat stress • Noise • Overhead equipment • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Scaffolding • Vermin (such as rats, birds, rodents feces) • Work off ladders 	<ul style="list-style-type: none"> • Aerial lift • Asbestos work plan (if applicable) • Barricades/signs/spotter (if applicable) • Building system shutdown • Check-in with the department contact person prior to work • Confined space permit (if applicable) • Energized electrical work permit & work plan – as needed • Ensure work area is clear from spills and trip hazards • Follow industry safety standards for operating power/hand tools • Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape • Hot Work Permit (ie soldering) if applicable • If hot, drink water and take necessary rest breaks • Lead work plan (if applicable) • Lockout procedure • Location of exits • Location of fire extinguisher • Location of first aid kit • Pest Contractor – as needed • Refrigerant leak work plan (if applicable) • Safety Data Sheets (SDS) for chemical and products • Use portable refrigerant monitor where needed • Use temporary lighting (such as head lamps) • Water treatment plan • Cooling tower work practice – if applicable 	<p>Task Specific Training</p> <ul style="list-style-type: none"> • Asbestos <1% & Lead Work Practices • Audiometric Hearing test • Back Protection & Lifting Safety Online • Bloodborne Pathogens for Non-Lab • Compressed Gas Safety • Confined Space Awareness • Confined Space Entry/Hands On (such as Columbia Lift) – as needed • Department specific training • Ergonomic online training (optional) • Fall Protection • Fire Extinguisher Hands On • Fire Extinguisher Online • HazCom/GHS training • Hearing Protection /Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lift Training • Lockout/Tagout Safety • Monthly shop safety meetings on PPE and SDS • NFPA 70E Arc Flash/Electrical Safety • Refrigerant Monitoring • Respirator training & Fit Test • Scaffold Safety • Supv LOTO Field Evaluation <p>PPE</p> <ul style="list-style-type: none"> • Arc Flash clothing -as required per NFPA 70E • Bump cap -as needed • Dust mask -as needed • Electrically rated tools • Gloves – as required per NFPA 70E • Gloves – as needed • Head cover – as required per NFPA 70E • Hearing protection -as needed • Impact glasses/goggles – as needed • Impact glasses/goggles – as required per NPFA 70E • LOTO locks or tags • Personal fall restraint/arrest equipment • Substantial footwear • Substantial <u>leather</u> footwear – as required per NFPA 70E

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
<p>Operate/maintain/repair/troubleshoot pneumatic and DDC controls <50v – OR - not exposed to energized equipment in animal areas</p>	<ul style="list-style-type: none"> • Airborne contaminants (such as occupant concerns, odors, mold) • Asbestos exposure • Biological hazards (such as sanitary sewer leaks, animal feces, legionella) • Compressed gasses (such as solder gun fuel) • Confined spaces (such as crawl space, ceiling plenums) • Ergonomic problems such as lifting, repetitive motion, awkward posture • Hazardous chemicals (such as chemicals in hydronic systems) • Hazardous energy (mechanical, heat, pressure (gas or liquid lines)) • Heat stress • Insufficient lighting • Noise • Overhead equipment • Pedestrian traffic • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Work off ladders 	<ul style="list-style-type: none"> • Asbestos work plan (if applicable) • Barricades/signs/spotter (if applicable) • Building system shutdown • Check-in with the department contact person prior to work • Confined space permit (if applicable) • Ensure work area is clear from spills and trip hazards • Follow industry safety standards for operating power/hand tools • Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape • Hot Work Permit (ie soldering) if applicable • If hot, drink water and take necessary rest breaks • Lead work plan (if applicable) • Lockout procedure • Location of exits • Location of fire extinguisher • Location of first aid kit • Safety Data Sheets (SDS) for chemical and products • Use portable refrigerant monitor where needed • Use temporary lighting (such as head lamps) • Water treatment plan 	<p>Task Specific Training</p> <ul style="list-style-type: none"> • Asbestos <1% & Lead Work Practices • Audiometric Hearing test • Back Protection & Lifting Safety Online • Biosafety–non-human primate areas • Bloodborne Pathogens for Non-Lab Online • Compressed Gas Safety • Confined Space Awareness • Confined Space Entry/Hands On (as needed) • Department specific training • Ergonomic Online training (optional) • Fire Extinguisher Hands On • Fire Extinguisher Online • HazCom/GHS training • Hearing Protection /Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lockout/Tagout Safety • Monthly shop safety meetings on PPE and SDS • Refrigerant Monitoring • Respirator training & Fit Test • Supv LOTO Field Evaluation <p>PPE</p> <ul style="list-style-type: none"> • Bump cap - as needed • Dust mask - as needed • Gloves – as needed • Head cover – as required • Head light / temporary lighting • Hearing protection -as needed • Impact glasses/goggles • LOTO locks or tags • Shoe covers – as required • Splash face shield – as required • Substantial footwear • Tyvek coveralls – as required • Any other PPE as specified by the department

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
<p>Operate/maintain/repair/troubleshoot pneumatic and DDC controls when working on exposed equipment that is >50v in animal areas</p>	<ul style="list-style-type: none"> • Airborne contaminants (such as occupant concerns, odors, mold) • Asbestos exposure • Biological hazards (such as sanitary sewer leaks, animal feces, legionella) • Compressed gasses (such as solder gun fuel) • Confined spaces (such as crawl space, ceiling plenums) • Electrically energized equipment • Ergonomic problems such as lifting, repetitive motion, awkward posture • Hazardous chemicals (such as chemicals in hydronic systems) • Hazardous energy (mechanical, heat, pressure (gas or liquid lines)) • Heat stress • Insufficient lighting • Noise • Overhead equipment • Pedestrian traffic • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Work off ladders 	<ul style="list-style-type: none"> • Asbestos work plan (if applicable) • Barricades/signs/spotter (if applicable) • Building system shutdown • Check-in with the department contact person prior to work • Confined space permit (if applicable) • Energized electrical work permit & work plan – as needed • Ensure work area is clear from spills and trip hazards • Follow industry safety standards for operating power/hand tools • Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape • Hot Work Permit (ie soldering) if applicable • If hot, drink water and take necessary rest breaks • Lead work plan (if applicable) • Lockout procedure • Location of exits • Location of fire extinguisher • Location of first aid kit • Safety Data Sheets (SDS) for chemical and products • Use temporary lighting (such as head lamps) • Water treatment plan 	<p>Task Specific Training</p> <ul style="list-style-type: none"> • Asbestos <1% & Lead Work Practices • Audiometric hearing test • Back Protection & Lifting Safety Online • Biosafety–non-human primate areas • Bloodborne Pathogens for Non-Lab Online • Compressed Gas Safety • Confined Space Awareness • Confined Space Entry/Hands On - as needed • Department specific training • Ergonomic Online training (optional) • Fire Extinguisher Hands On • Fire Extinguisher Online • HazCom/GHS training • Hearing Protection /Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lockout/Tagout Safety • Monthly shop safety meetings on PPE and SDS • NFPA 70E Arc Flash/Electrical Safety • Respirator training & Fit Test • Supv LOTO Field Evaluation <p>PPE</p> <ul style="list-style-type: none"> • Arc Flash Tyvek coveralls- as required per NFPA 70E • Bump cap - as needed • Dust mask - as needed • Electrically rated tools • Gloves – as required per NFPA 70E • Gloves – as needed • Head cover – as required per NFPA 70E • Head cover – as required • Head light / temporary lighting • Hearing protection -as needed • Impact glasses/goggles • Impact glasses/goggles - as required per NFPA 70E • LOTO locks or tags • Shoe covers – as required • Splash face shield – as required • Substantial footwear • Substantial <u>leather</u> footwear – as required per NFPA 70E • Arc Flash rated Tyvek coveralls – as required • Any other PPE as specified by the department

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
<p>Operate/maintain/repair/troubleshoot pneumatic and DDC controls <50v – OR - not exposed to energized equipment in laboratory areas</p>	<ul style="list-style-type: none"> • Airborne contaminants (such as occupant concerns, odors, mold, refrigerant leak) • Asbestos exposure • Biological hazards (such as sanitary sewer leaks, legionella) • Compressed gasses (such as solder gun fuel) • Confined spaces (such as crawl space, ceiling plenums) • Ergonomic problems such as lifting, repetitive motion, awkward posture • Hazardous chemicals (such as chemicals in hydronic systems) • Hazardous energy (mechanical, heat, pressure (gas or liquid lines)) • Insufficient lighting • Noise • Overhead equipment • Pedestrian traffic • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Vermin (such as bird or rodent feces) • Work off ladders 	<ul style="list-style-type: none"> • Asbestos work plan (if applicable) • Barricades/signs/spotter (if applicable) • Building system shutdown • Check-in with the department contact person prior to work • Confined space permit (if applicable) • Ensure work area is clear from spills and trip hazards • Follow industry safety standards for operating power/hand tools • Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape • Hot Work Permit (ie soldering) if applicable • Lead work plan (if applicable) • Lockout procedure • Location of exits • Location of fire extinguisher • Location of first aid kit • Pest Contractor – as needed • Safety Data Sheets (SDS) for chemical and products • Use temporary lighting (such as head lamps) • Water Treatment Plan 	<p>Task Specific Training</p> <ul style="list-style-type: none"> • Asbestos <1% & Lead Work Practices • Audiometric Hearing test • Back Protection & Lifting Safety Online • Bloodborne Pathogens for Non-Lab Online • Compressed Gas Safety • Confined Space Awareness • Confined Space Entry/Hands On – as needed • Department specific training • Ergonomic Online training (optional) • Fire Extinguisher Hands On • Fire Extinguisher Online • HazCom/GHS training • Hearing Protection /Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lockout/Tagout Safety • Monthly shop safety meetings on PPE and SDS • Respirator training & Fit Test • Supv LOTO Field Evaluation <p>PPE</p> <ul style="list-style-type: none"> • Bump cap - as needed • Dust mask - as needed • Gloves – as needed • Head light / temporary lighting • Hearing protection -as needed • Impact glasses/goggles • LOTO locks or tags • Substantial footwear • Any other PPE as specified on the department lab entry sign

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
<p>Operate/maintain/repair/troubleshoot pneumatic and DDC controls when working on exposed equipment that is >50v in laboratory areas</p>	<ul style="list-style-type: none"> • Airborne contaminants (such as occupant concerns, odors, mold, refrigerant leak) • Asbestos exposure • Biological hazards (such as sanitary sewer leaks, legionella) • Compressed gasses (such as solder gun fuel) • Confined spaces (such as crawl space, ceiling plenums) • Electrically energized equipment • Ergonomic problems such as lifting, repetitive motion, awkward posture • Hazardous chemicals (such as chemicals in hydronic systems) • Hazardous energy (mechanical, heat, pressure (gas or liquid lines)) • Insufficient lighting • Noise • Overhead equipment • Pedestrian traffic • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Vermin (such as bird or rodent feces) • Work off ladders 	<ul style="list-style-type: none"> • Asbestos work plan (if applicable) • Barricades/signs/spotter (if applicable) • Building system shutdown • Check-in with the department contact person prior to work • Confined space permit (if applicable) • Energized electrical work permit & work plan – as needed • Ensure work area is clear from spills and trip hazards • Follow industry safety standards for operating power/hand tools • Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape • Hot Work Permit (ie soldering) if applicable • Lead work plan (if applicable) • Lockout procedure • Location of exits • Location of fire extinguisher • Location of first aid kit • Pest Contractor – as needed • Safety Data Sheets (SDS) for chemical and products • Use temporary lighting (such as head lamps) • Water Treatment Plan 	<p>Task Specific Training</p> <ul style="list-style-type: none"> • Asbestos <1% & Lead Work Practices • Audiometric hearing test • Back Protection & Lifting Safety Online • Bloodborne Pathogens for Non-Lab Online • Compressed Gas Safety • Confined Space Awareness • Confined Space Entry/Hands On – as needed • Department specific training • Ergonomic online training (optional) • Fire Extinguisher Hands On • Fire Extinguisher Online • HazCom/GHS training • Hearing Protection /Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lockout/Tagout Safety • Monthly shop safety meetings on PPE and SDS • NFPA 70E Arc Flash/Electrical Safety • Respirator training & Fit Test • Supv LOTO Field Evaluation <p>PPE</p> <ul style="list-style-type: none"> • Arc Flash clothing- as required per NFPA 70E • Bump cap - as needed • Dust mask - as needed • Electrically rated tools • Gloves – as required per NFPA 70E • Gloves – as needed • Head cover – as required per NFPA 70E • Head light / temporary lighting • Hearing protection (as needed) • Impact glasses/goggles • Impact glasses/goggles - as required per NFPA 70E • LOTO locks or tags • Substantial footwear • Substantial <u>leather</u> footwear – as required per NFPA 70E • Any other PPE as specified on the department lab entry sign

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
<p>Operate/maintain/repair/troubleshoot pneumatic and DDC controls <50v – OR - not exposed to energized equipment in construction areas</p>	<ul style="list-style-type: none"> • Airborne contaminants (such as occupant concerns, odors, mold, refrigerant leak) • Asbestos exposure • Biological hazards (such as sanitary sewer leaks, cooling tower -legionella) • Compressed gasses (such as solder gun fuel) • Confined spaces (such as crawl space, ceiling plenums) • Ergonomic problems such as lifting, repetitive motion, awkward posture • Hazardous chemicals (such as chemicals in hydronic systems) • Hazardous energy (mechanical, heat, pressure (gas or liquid lines)) • Insufficient lighting • Noise • Overhead equipment • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Scaffolding • Vermin (such as bird or rodent feces) • Work off ladders 	<ul style="list-style-type: none"> • Aerial lift • Asbestos work plan (if applicable) • Barricades/signs/spotter (if applicable) • Building system shutdown • Check-in with the construction contact person prior to work • Confined space permit (if applicable) • Ensure work area is clear from spills and trip hazards • Follow industry safety standards for operating power/hand tools • Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape • Hot Work Permit (ie soldering) if applicable • Lead work plan (if applicable) • Lockout procedure • Location of exits • Location of fire extinguisher • Location of first aid kit • Pest Contractor – as needed • Refrigerant leak work plan (if applicable) • Safety Data Sheets (SDS) for chemical and products • Use portable refrigerant monitor where needed • Use temporary lighting (such as head lamps) • Water treatment plan • Cooling tower work practice – if applicable 	<p>Task Specific Training</p> <ul style="list-style-type: none"> • Asbestos <1% & Lead Work Practices • Audiometric hearing test • Back Protection & Lifting Safety Online • Bloodborne Pathogens for Non-Lab Online • Compressed Gas Safety • Confined Space Awareness • Confined Space Entry/Hands On – as needed • Construction site specific training • Ergonomic online training (optional) • Fall Protection • Fire Extinguisher Hands On • Fire Extinguisher Online • First aid & CPR – as required • HazCom/GHS training • Hearing Protection /Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lift Training • Lockout/Tagout Safety • Monthly shop safety meetings on PPE and SDS • Refrigerant Monitoring • Respirator training & Fit Test • Scaffold Safety • Supv LOTO Field Evaluation <p>PPE</p> <ul style="list-style-type: none"> • Dust mask - as needed • Gloves – as needed • Hard hat • Head light / temporary lighting • Hearing protection (as needed) • Impact glasses/goggles • LOTO locks or tags • Personal fall restraint/arrest equipment • Safety vest • Footwear required by construction site • Any other PPE as specified on the construction site

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
<p>Operate/maintain/repair/troubleshoot pneumatic and DDC controls when working on exposed equipment that is >50v in construction areas</p>	<ul style="list-style-type: none"> • Airborne contaminants (such as occupant concerns, odors, mold, refrigerant leak) • Asbestos exposure • Biological hazards (such as sanitary sewer leaks, cooling tower -legionella) • Compressed gasses (such as solder gun fuel) • Confined spaces (such as crawl space, ceiling plenums) • Electrically energized equipment • Ergonomic problems such as lifting, repetitive motion, awkward posture • Hazardous chemicals (such as chemicals in hydronic systems) • Hazardous energy (mechanical, heat, pressure (gas or liquid lines)) • Insufficient lighting • Noise • Overhead equipment • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Scaffolding • Vermin (such as bird or rodent feces) • Work off ladders 	<ul style="list-style-type: none"> • Aerial lift • Asbestos work plan (if applicable) • Barricades/signs/spotter (if applicable) • Building system shutdown • Check-in with the construction contact person prior to work • Confined space permit (if applicable) • Energized electrical work permit & work plan – as needed • Ensure work area is clear from spills and trip hazards • Follow industry safety standards for operating power/hand tools • Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape • Hot Work Permit (ie soldering) if applicable • Lead work plan (if applicable) • Lockout procedure • Location of exits • Location of fire extinguisher • Location of first aid kit • Pest Contractor – as needed • Refrigerant leak work plan (if applicable) • Safety Data Sheets (SDS) for chemical and products • Use portable refrigerant monitor where needed • Use temporary lighting (such as head lamps) • Water treatment plan • Cooling tower work practice – if applicable 	<p>Task Specific Training</p> <ul style="list-style-type: none"> • Asbestos <1% & Lead Work Practices • Audiometric hearing test • Back Protection & Lifting Safety Online • Bloodborne Pathogens for Non-Lab Online • Compressed Gas Safety • Confined Space Awareness • Confined Space Entry/Hands On – as needed • Construction site specific training • Ergonomic online training (optional) • Fall Protection • Fire Extinguisher Hands On • Fire Extinguisher Online • First aid & CPR – as required • HazCom/GHS training • Hearing Protection /Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lift Training • Lockout/Tagout Safety • Monthly shop safety meetings on PPE and SDS • NFPA 70E Arc Flash/Electrical Safety • Refrigerant Monitoring • Respirator training & Fit Test • Scaffold Safety • Supv LOTO Field Evaluation <p>PPE</p> <ul style="list-style-type: none"> • Arc Flash clothing- as required per NFPA 70E • Dust mask - as needed • Electrically rated tools • Gloves – as required per NFPA 70E • Gloves – as needed • Hard hat • Head cover – as required per NFPA 70E • Head light / temporary lighting • Hearing protection (as needed) • Impact glasses/goggles • Impact glasses/goggles- as required per NFPA 70E • LOTO locks or tags • Personal fall restraint/arrest equipment • Safety vest • Substantial <u>leather</u> footwear – as required per NFPA 70E and/or construction site • Any other PPE as specified on the construction site