



NAME	COVID-19 Safety Supplies Procurement Catalogue	#	SUPSS-1
CATEGORY	Standard of CARE		
REV #	New-1		
NEXT REVIEW DATE	2021		
REVIEW FREQUENCY	Annually-Procurement		






Background:

Selecting suitable safety supplies to sufficiently reduce exposure to recognizable hazards is essential to the well-being of our campus population (Faculty, Staff and Students). The purpose of this procurement criteria is to provide resources that allow members of the campus community to identify various items so the appropriate personal safety precautions are taken by an individual when conducting their activities on campus (teaching, research, service learning, and providing support services).

For the Procurement Committee, safety supplies have been classified into five broad categories. Each category includes its own corresponding product examples.

1.) Eye and Face Protection

Eye protection is achieved by wearing eyewear specifically designed to reduce the risk of exposure to hazardous material splashes, laser radiation and/or flying debris. There are four primary types of eye protection including general safety glasses, laser safety glasses, splash goggles and impact goggles. Full face protection is achieved by wearing face shields. Any safety eyewear must meet the ANSI Z87.1 standard. They should be selected for comfort, and durability. Bifocal options are available in a variety of reading strengths.



Description	Criteria and Use Guidance	Image Example
General Safety Glasses	<ul style="list-style-type: none"> • Must have side shields, or a one-piece lens that wraps around the temple. • Are the minimum level of eye protection that must be worn. • Are not effective in protecting the eyes from splashes and are only recommended for use with solutions that are not likely to damage the eye (not suitable for corrosives). • Discard as municipal solid waste when damaged or show signs of wear • Grainger 4VCG3 \$1.11 each 	
Laser Safety Glasses	<ul style="list-style-type: none"> • Selection is based on the laser wavelength and power. • Protective properties can be found printed on the eyewear. • Are not as effective as laser safety goggles at filtering all light entering the eyes. • Discard as municipal solid waste when damaged or show sign of wear • Grainger 48ZM56 \$212.22 each 	
Splash Goggles	<ul style="list-style-type: none"> • Are recommended any time a splash of chemicals or biological substances could reach the eyes. • Can act as impact goggles to prevent flying debris from reaching the eyes. • Discard as municipal solid waste when damaged or show signs of wear • Grainger 4YZ57 \$11.06 each 	
Impact Goggles	<ul style="list-style-type: none"> • Offer protection from flying debris only. • Often have ventilation holes on the sides that render the user susceptible to chemical splashes and dust or small debris. • Chemical splash goggles can often be used in substitution. • Discard as municipal solid waste when damaged or show signs of wear • Grainger IVT70 \$2.36 each 	
Face Shields	<ul style="list-style-type: none"> • Required when splashes from chemicals that can cause immediate skin damage are handled (e.g. working with concentrated acids, dispensing liquid nitrogen, sonicating tissue samples, etc.). • Shall be worn in conjunction with chemical splash goggles. Respiratory protective equipment might be required, depending on the task. • Discard as municipal solid waste when damaged or show signs of wear • Grainger 3NLY2 \$29.97 each 	





Note: Images are courtesy of Grainger a major supplier to Seattle University





2.) Hand Protection

The selection of suitable gloves, properly washing your hand or using sanitizing hand gels or foams is essential to protecting hands. Gloves purchased for food handling use must be FDA Compliant. Manufacturers test and rate gloves using the ASTM F739 standard. Glove products that are resistant to biological and chemical materials are one of the most important injury prevention tools as they minimize dermal exposures in an assortment of work environments. Gloves should only be used under the specific conditions for which they are designed and tested. They allow the user to easily remove them when the user suspects that contamination has occurred. This keeps contamination from spreading.

It is also important to note that gloves degrade over time, so they should be replaced when they become grossly contaminated or damaged (rips and tears) to ensure adequate protection of the wearer. Manufactures produce glove guides and compatibility charts for the wearer to select the type and style of glove suitable for their needs.

Description	Type	Criteria and Use Guidance	Image Example
Light latex, vinyl, or nitrile gloves	Disposable latex 3.5 mil (powdered or unpowdered)	<ul style="list-style-type: none"> • Suitable for working with biological hazards only (human blood, body fluids, tissues, bloodborne pathogens, specimens), BSL1, BSL2 • Some individuals may develop an allergic reaction to latex containing items • Discard as municipal solid waste when damaged or become grossly contaminated • Grainger 41FV92 \$8.09 for Box of 100 	
	Disposable nitrile 3.5mil (puncture and abrasion resistant, protection from splash hazards)	<ul style="list-style-type: none"> • Suitable for working with biological hazards • Suitable for working with chemical hazards • Commonly used general purpose glove product for Trades, Laboratories, Art Studios and Clinical Care settings • Discard as municipal solid waste when damaged or become grossly contaminated • Grainger 3RRH2 \$16.80 for box of 100 	

	Disposable vinyl 2.8 mil (economical, durable, similar to latex)	<ul style="list-style-type: none"> • Suitable for working with biological hazards only, BSL1, BSL2 • Some wearers may experience a loss of dexterity • Discard as municipal solid waste when damaged or become grossly contaminated • Grainger 2RXX8 \$5.25 for Box of 100 	
Light to heavy chemical resistant gloves	Nitrile 15 mil (chemical resistant, good puncture, cut and abrasion resistance)	<ul style="list-style-type: none"> • Using apparatus under pressure, air, or water reactive chemicals • For operations such as emersion baths • Discard as municipal solid waste when damaged or become grossly contaminated • 4T425 \$1.76 per pair 	
Heavy chemical resistant gloves	Butyl 12 mil (high permeation resistance to most chemicals)	<ul style="list-style-type: none"> • Suitable for working with large volumes of organic solvents; • Suitable for working with small to large volumes of halogenated solvents, • Suitable for working with acutely toxic materials • The wearer may experience a loss of dexterity making it necessary to double glove with a light-weight nitrile glove • Discard as municipal solid waste when damaged or become grossly contaminated • Grainger 3PXD (Size 8,9, 10) \$90.30 per pair 	
	Viton® II 25 mil (high permeation resistance to most chemicals)	<ul style="list-style-type: none"> • Similar properties as butyl gloves, • Commonly used for Emergency Response personnel for handling a variety of hazardous material spills • Discard as municipal solid waste when damaged or become grossly contaminated • Grainger 29YR13 \$41.30 per pair 	




Insulated gloves	Terrycloth autoclave (heat resistant)	<ul style="list-style-type: none"> • Suitable for working with hot liquids and equipment • The wearer may experience a loss of dexterity making it necessary to double glove with a light-weight nitrile glove • Discard as municipal solid waste when damaged or show excessive signs of wear • Grainger 2EWX3 \$11.24 per pair 	
	Cryogen (water resistant or waterproof, protection against ultra-cold temperatures)	<ul style="list-style-type: none"> • Handling cryogenic liquids • The wearer may experience a loss of dexterity making it difficult to handle small items • Discard as municipal solid waste when damaged or show excessive signs of wear • Grainger 2AEY7 \$99.05 per pair 	
Wire mesh gloves	Wire mesh (cut resistant)	<ul style="list-style-type: none"> • Suitable for working with live animals • Suitable for working with sharp cutting tools to reduce cut injuries • Discard as municipal solid waste when damaged or show excessive signs of wear • Grainger 18C892 \$67.28 per pair 	
Good Hand Hygiene	Hand Sanitizer	<ul style="list-style-type: none"> • Preferred Practice is to frequently wash your hands. Wet your hands with clean, warm running water. Apply soap, lather your hands by rubbing them together with the soap. Lather the backs of your hands, between your fingers, and under your nails. Scrub your hands for at least 20 seconds. • When washing is not practical, use a gel or foam sanitizer product that contains at least 60% ethanol or 70% Isopropanol • Use as directed by the manufacturer • Grainger 453F74 \$315 each 	





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3.) Body Protection

Wearing body protection is a way to protect an individual. It may be used to protect exposed skin and personal clothing. It be used to make an individual more comfortable and highly visible while they conduct their tasks.

Lab coats are required for all wet labs and are recommended for art studios, and certain engineering spaces. Cotton or cotton/poly blends are sufficient for teaching environments with minimal risk of fire. Flame resistant coats are recommended for work with pyrophorics, highly flammable liquids in quantities of more than 4 liters or when work involves flammable liquids and an ignition source. Barrier coats should be worn when working with biological materials to support dirty-to-clean workflow.

Description	Criteria and Use Guidance	Image Example
Traditional Lab Coat (cotton/cotton-polyester blend)	<ul style="list-style-type: none"> ● General use; chemical, biological, radiation and physical hazards ● Wash following manufacturer’s directions ● Amazon VOGRYE \$13.99-\$19.99 	
Flame resistant Lab Coat (e.g. Nomex or other flame-resistant cotton — resists ignition)	<ul style="list-style-type: none"> ● Recommended when working with water or air reactive chemicals, ● Recommended when working with large volumes of Class 1-A flammable liquids ● Recommended when working with potentially explosive chemicals ● Wash following manufacturer’s directions ● Grainger 3FXY5 \$66.83 	
Barrier Coat (predominantly polyester offers splash protection, not flame resistant)	<ul style="list-style-type: none"> ● General use for working with biological materials ● General use for working with small volumes of non-hazardous chemicals ● Wash following manufacturer’s directions ● McKesson #628965 \$68.46 for package of 12 	

<p>Fluid Impervious Barrier Gown, Reusable</p>	<ul style="list-style-type: none"> • Commonly used in patient care environments • May come in a variety of colors (White, Yellow, Blue, Green) • Fluid repellent finish that offers splash protection • Wash following manufacturer's directions • VWR #10153-024 \$95.13 Case of 100 	
<p>Fluid Impervious Barrier Gown, Disposable</p>	<ul style="list-style-type: none"> • Commonly used in patient care environments • May come in a variety of colors (White, Yellow, Blue) • Fluid repellent finish that offers splash protection • Discard as municipal solid waste • VWR #89095-088 \$327.20 Case of 50 	
<p>Rainwear</p>	<ul style="list-style-type: none"> • Weatherproof • Wash following manufacturer's directions • Grainger 8Y061 \$32.81 	
<p>Reflective Clothing</p>	<ul style="list-style-type: none"> • Meets ANSI 107 • Reflective striping • Wash following manufacturer's directions • Grainger 4CWE9 \$31.16 	


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4.) Respiratory Protection



Respiratory protective equipment is only used as a "last line of defense," and as a result, requires individual assessment and training. Proper fitting and use of a respirator are key to respirator efficacy. Individuals who believe one or more of their job tasks require respiratory protective equipment must discuss the matter with their Supervisor. If the Supervisor is unable to



eliminate the respiratory risk through modification of work practices and hazardous materials use, the following steps should be taken:

1. A workplace hazard assessment (by task and individual) can be requested and scheduled with the Research Integrity, Safety and Compliance Team through the On-line Work Order process to determine if the task requires respiratory protective equipment.
 - a. If the task does not require respiratory equipment but the employee wishes to use such equipment, he or she enters into a “Voluntary Use” status.
2. If respiratory protective equipment is necessary (job requirement, chemical standard etc.), the employee will receive an e-mail asking them to complete a medical evaluation questionnaire. This confidential information is evaluated by a contracted physician or licensed health care professional (PLHCP) who will perform a confidential medical evaluation to determine the employee's fitness to wear a respirator.
3. When the employee is approved to wear a respirator for the job task(s) outlined in the hazard assessment, the appropriate respirator will be selected, and the employee will be fit-tested following Washington State’s accepted fit-testing protocol. Fit-testing is performed by a contracted Certified Industrialist or a licensed medical professional trained to assure the selected respirator is worn correctly to allow proper performance.
4. During fit-testing, the employee receives training on the appropriate method(s) to store, handle and sanitize the respirator.
5. Once initial fitting and training is completed, the employee must attend yearly refresher training.

Description	Type	Criteria and Use Guidance	Image Example
Reusable Cloth Face Covering	Public Health Directive <i>(does not require fit-testing)</i>	<ul style="list-style-type: none"> • 3-ply is the minimum number of layers • Hand-made or commercially produced covering using cotton, silk, chiffon, and flannel • Macro droplet containment of the wearer • Suitable for use in a non-healthcare setting (office, learning, research, work setting, common areas) • Prevents spreading virus when talking, sneezing, or coughing • Best when worn while practicing social distancing behavior • Not respiratory protection as they are loose fitting • Launder daily, replace when damaged and no longer fits well • Grainger Hanes product \$25.92 for package of 10 • Amazon Hanes product B0882DGTP5 Black/B0882LIJSP White \$1.00 	

Disposable Mask	Protection against wearer droplets <i>(does not require fit-testing)</i>	<ul style="list-style-type: none"> • ASTM Level 1 commercially produced mask • Macro droplet containment of the wearer • May be worn by Visitors and for task-specific activities performed by campus support services personnel • Not respiratory protection as they are loose fitting • Replace daily, discard as municipal solid waste • Grainger #56JD44 \$32.00 for package of 50 • Amazon Modenna B086HKN7SS \$12.99 for box of 50 	
Disposable Medical-Grade Surgical Mask	Protect against large droplets and splashes <i>(does not require fit-testing)</i>	<ul style="list-style-type: none"> • Reserved for healthcare workers • ASTM Level 3 FDA-approved standard commercially produced for use in a healthcare setting • 3-ply and fluid resistant • Suitable for work with live animals; working with infectious material in BSL-2 locations but only protects the materials being handled or patient being treated from the wearer. • Not respiratory protection as they are loose fitting • Replace regularly and at least daily, discard as municipal solid waste • Major suppliers remain out of stock 	




Disposable N-95 Filtering Facepiece Respirator	Protects against dusts, fumes, mists, microorganisms <i>(requires fit-testing)</i>	<ul style="list-style-type: none"> • Reserved for healthcare workers and task-specific hazards • NIOSH approved standard for particle size and breathability • May require a Workplace Hazard Assessment • Suitable for working with live animals or infectious materials in BSL-2 locations with known airborne transmissible disease (e.g. tuberculosis, also required for influenza (flu)), and dusty irritating environments • If used for respiratory protection, it requires medical clearance, training and fit testing. • These are tight fitting, uncomfortable, cause fatigue in the wearer, and can lead to asthmatic conditions with frequent use over extended periods of time • Discard as municipal solid waste • Limited availability 	
Reusable Half-mask Respirator	Purifies air: protects against variety of particulates, vapors, dust, mists, fumes; depends on filter cartridge used <i>(requires fit-testing)</i>	<ul style="list-style-type: none"> • NIOSH approved standard • Require a Workplace Hazard Assessment • Suitable for working with live animals or infectious materials with known airborne transmissible disease; dusty environments; chemical vapors; particulates • Requires participation in a respiratory protection program • These are tight fitting, uncomfortable, cause fatigue in the wearer, and can lead to asthmatic conditions with frequent use over extended periods of time • Discard as municipal solid waste when no longer needed 	

Reusable Full-face Respirator	Same as half-mask, with greater protection factor; eye, mucus membranes and face protection; depends on filter cartridge used (<i>requires fit-testing</i>)	<ul style="list-style-type: none"> • NIOSH approved standard • Require a Workplace Hazard Assessment • Suitable for working with live animals or infectious materials with known airborne transmissible disease; dusty environments; chemical vapors; particulates • Requires participation in a respiratory protection program • These are tight fitting, uncomfortable, cause fatigue in the wearer, and can lead to asthmatic conditions with frequent use over extended periods of time • Discard as municipal solid waste when no longer needed 	
Reusable Air Powered Respirator	Battery powered devices provide the greatest protection factor; eye, mucus membranes and face protection (<i>requires specialized training</i>)	<ul style="list-style-type: none"> • NIOSH approved standard • Require a Workplace Hazard Assessment • Suitable for use in a variety of settings clinical, laboratory and non-laboratory involving higher-risk activities • Light weight and comfortable for the user and does not allow for easy removal ensuring good protection of face and head entry openings • Does not require annual medical clearance and fit testing • Initial and refresher training is necessary • Follow manufacturers recommendations for decontamination, maintenance, and storage • Utilized solely by trained Student Health Center personnel 	

Note: Images are courtesy of Grainger and Henry Schein major suppliers to Seattle University

5.) Hearing Protection

All campus departments are encouraged to purchase low noise rated equipment. Any devices with a noise rating nearing the 85 dBA Action Level will require the user to wear hearing protection with a noise reduction rating sufficient to bring noise levels below 80 dBA. Hearing protection devices can be worn in combination to achieve an additional noise reduction of 5 dBA.

Description	Criteria and Use Guidance	Image Example
Disposable Sable earplugs	<ul style="list-style-type: none"> • Polyvinyl chloride (PVC) or polyurethane foam, • One-time use design • Light weight, blocks all sound • Suitable for use when working in areas where sound level averages may exceed 80 dBA • Noise reduction ratings may range from 20-30 dBA • Discard as municipal solid waste after use • Grainger #5FV09 \$29.16 for package of 200 	
Reusable earplugs	<ul style="list-style-type: none"> • Silicone, tapered fit, reusable design • Light weight, more durable than disposable earplugs, blocks all sound • Suitable for use when working in areas where sound level averages may exceed 80 dBA • Noise reduction ratings may range from 20-30 dBA • Discard as municipal solid waste once they do not fit or become worn or damaged • Grainger #5FV12 \$23.49 for package of 100 	
Reusable Passive Earmuffs	<ul style="list-style-type: none"> • Earmuffs passively block noise by relying on the insulating material of the ear cup to dampen sound • Higher visibility • Suitable for use when working in areas where sound level averages may exceed 80 dBA • Noise reduction ratings may range from 20-30 dBA • Discard as municipal solid waste once they cannot be repaired and worn parts cannot be replaced • Grainger #3NKY7 \$29.36 each 	

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