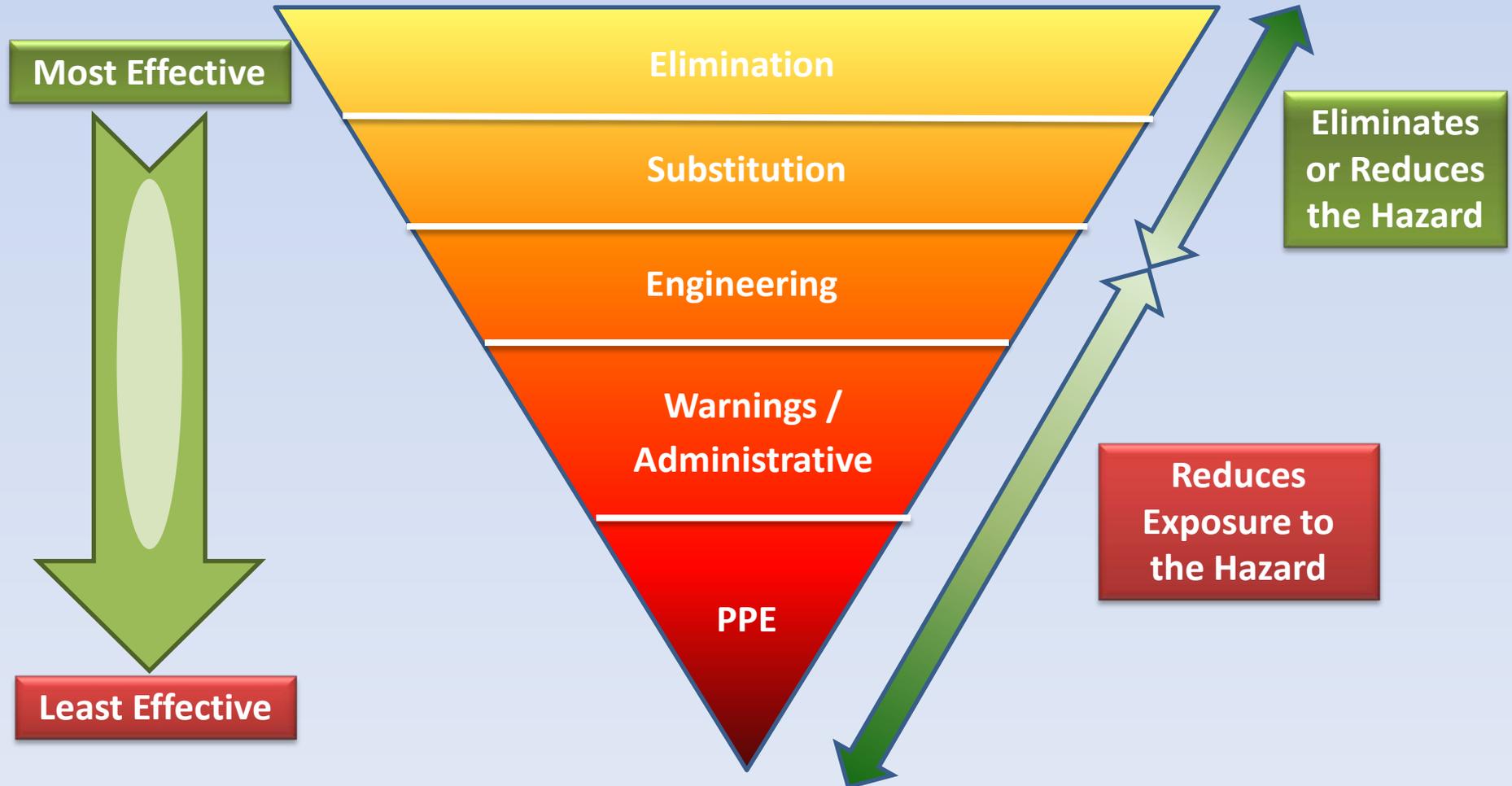


# Hierarchy of Controls

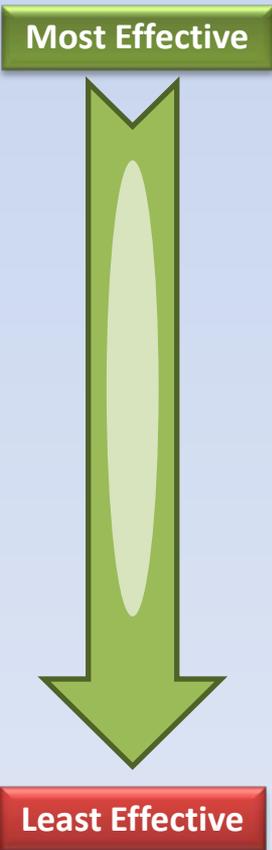
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This hierarchy is intended to provide a systematic approach to control hazards. They are ranked by effectiveness. The controls are less effective as they progress to the bottom of this page. It is common to combine controls. The hazard type, consequence severity, and the risk to workers must be considered when identifying which control(s) should be used. As the risk increases so should the control method.



# Examples Hierarchy of Controls

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Controls	Description / Examples
<b>Elimination</b>	Design to eliminate hazards or completely stop the practice to remove the hazard.
<b>Substitution</b>	Substitute a less hazardous material, for example change out chemicals, use equipment that creates less noise, etc.
<b>Engineering</b>	Examples include: Ventilation such as lab hoods, blast shields, machine guarding, guard rails, interlocks, etc.
<b>Warnings / Administrative</b>	Examples of Warnings include: Signs, alarms, labeling Examples of Administrative Controls include: Procedures and training
<b>PPE</b>	This includes any protection worn by a person to protect them from a hazard, e.g., safety glasses, gloves, respirator, etc.