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# Personal Protective Equipment (PPE) Activity

## Instructor Guide

### Note to Instructor

Personal Protective Equipment (PPE) is an activity for the *PPE Learning Module*. This activity could be assigned either before or after the primary knowledge unit on PPE.

Units in the *PPE Learning Module*:

- Personal Protective Equipment Primary Knowledge
- **Personal Protective Equipment Activity**
- Personal Protective Equipment Final Assessment

*The purpose of this learning module is to familiarize participants with the types of PPE found in manufacturing and laboratory environments, the purpose of PPE and what type of PPE is required for different tasks.*

### Introduction

Manufacturing microsystems involves working with hazardous materials. Anyone who works with hazardous materials must understand the personal and environmental hazards involved with these materials, as well as the proper personal protection that must be employed. This activity will exercise your knowledge of the personal protective equipment (PPE) necessary to work with these hazardous materials.

### Description and Estimated Time to Complete

This Activity provides

- A crossword puzzle which utilizes your knowledge of PPE
- Post-activity questions pertaining to PPE and its correct usage

Allow at least 15 minutes to complete the crossword puzzle.

Allow 10 minutes to complete the Post-Activity questions.

### Activity Objectives and Outcomes

#### Activity Objectives

- Identify the types of PPE used for various situations

#### Activity Outcomes

After the completion of this activity, you will have strengthened your knowledge of the PPE required when working with the hazardous materials involved in microsystems manufacturing.

**Dependencies**

It would be helpful to review the following SCME units:

- PPE PK – This unit will be particularly helpful when answering the post-activity questions.
- Hazardous Materials I PK
- Hazardous Materials II PK

**Supplies**

- A printout of the crossword puzzle
- Pencil
- The Post-activity Questions

### What Do You Know about PPE? (Answers)

	<sup>1</sup> D									<sup>2</sup> R	U	<sup>3</sup> B	B	E	R	
<sup>4</sup> H	E	A	L	T	H			<sup>5</sup> F	U	M	E		O			
	R										S		D			
	M										P		Y			
	A							<sup>6</sup> F			I					
	<sup>7</sup> L	E	A	K	<sup>8</sup> S			A			R					
					O			C			A					
	<sup>9</sup> S	U	P	P	L	I	E	D			T					
	E				V						O					
	A		<sup>10</sup> F	E	E	T				<sup>11</sup> W	R					
	L				N					A						
		<sup>12</sup> C	<sup>13</sup> O	N	T	A	C	T	S							
			S		S				T							
			H						<sup>14</sup> P	E	R	S	O	N	A	<sup>15</sup> L
	<sup>16</sup> L	A	T	E	X											I
																Q
																U
																I
																D

*PPE Crossword Puzzle*

#### ACROSS

2. Acid gloves are usually made of this type of composite material
4. What kind of hazard may cause acute or chronic health effects?
5. Hazard that sometimes contains both gases and dusts
7. Before wearing acid or solvent gloves you should check for these
9. A \_\_\_\_\_ Air respirator uses a tank to supply outside air
10. Chemical resistant boots are worn to protect these
12. Cannot be worn on the eyes when in a cleanroom
14. \_\_\_\_\_ protective equipment
16. This type of glove does not protect from acids or solvents

#### DOWN

1. Which route of entry may cause a skin irritation?
2. A type of PPE designed to protect the respiratory system from inhalation of atmospheric hazards
3. Feet , hands, eyes, face, respiratory system, and \_\_\_\_\_
6. This shield must be used to protect the face when working with acids or solvents
8. An acid apron should be worn when using acids and \_\_\_\_\_
9. This check must be done before using a respirator
11. Acid gloves should be disposed in the acid \_\_\_\_\_
13. This organization has established a PPE standard
15. Solvent gloves can protect from this form of hazardous material

### Post-Activity Questions / Answers

1. Name the 6 parts of the body that PPE is designed to protect against hazardous materials.

- *Hands*
- *Feet*
- *Eyes*
- *Face*
- *Body*
- *Respiratory System*

2. What 2 types of special gloves can be worn as PPE when working with hazardous materials?

- *Acid Gloves*
- *Solvent Gloves*

3. Name the two types of respirators used to protect the respiratory system when working with PPE.

- *Air Purifying Respirators*
- *Supplied Air Respirators*

4. Name three articles of PPE that should be worn when handling acids.

- *Acid Gloves*
- *Acid Apron*
- *Face Shield*

### References

- MATEC Module 8 – Hazardous Materials Safety Principles
- MSDS Hyperglossary - <http://www.ilpi.com/msds/ref/>
- OSHA PPE Training - <http://www.free-training.com/oshappe/ppemenu.htm>

### Disclaimer

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