

TOOLBOX TALK



Job Safety Analysis (JSA)

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INTRODUCTION

Nearly every task we attempt has associated risks or hazards. In an attempt to minimize these risks most individuals make a conscious effort to be aware of situations around them that may cause harm.

Job safety analysis (JSA)

Job safety analyses focus on the relationship between a worker, the task to be performed, the work environment, and the equipment and tools related to the task. The JSA process may seem simple but the benefits of performing it correctly are exponential, such as lowering the number of injuries or incidents that may occur. In order to correctly perform a JSA the following three steps must be completed.

- Identify the steps needed to complete the task
- Pinpoint possible hazards that may occur in each step
- Eliminate or reduce the severity of the hazards that may occur

Actual Near Miss

A worker was grinding on deck wearing most of the recommended PPE except for the proper eye protection. If the worker had completed a JSA prior to performing the task, he would have known that eye protection was recommended as a control against eye hazards. Once a JSA is completed, individuals involved in the task must use all controls recommended to prevent injury, including all PPE that applies for that task.

JSA hazard types

When performing a JSA it is important to identify hazards that may cause harm or injury to individuals involved in the task. When identifying hazards the following list may help to pinpoint issues.

- Is there a danger of striking or being struck by an object?
- Is there a danger of being caught in, by, or between objects?
- Is there danger of slipping, tripping, or falling?
- Can pushing, pulling, lifting, bending or twisting cause strain?
- Is there danger of harm to eyes, hands, feet or other parts of a worker's body?

There are a variety of hazards that may be presented and can be categorized as: chemical, physical, biological, and ergonomic. The table below provides example hazards associated with each category.

Chemical Hazards	Physical Hazards
 Inhalation 	 Electrical
Skin contact	 Fire/Explosion
 Absorption 	 Noise
 Injection 	 Slips/falls
 Ingestion 	 Struck by/against
	 Radiation
	 Thermal stress
	Pinch points
Ergonomic Hazards	Biological Hazards
 Repetition 	 Blood borne pathogens
 Forceful 	 Brucellosis
exertions	 Building-related illness
 Awkward 	 Legionnaires' disease
postures	Mold
 Contact stress 	 Plant & insect poisons
 Vibration 	 Tuberculosis
 Work area design 	 Water (grey & black) &
Tool or	waste water
equipment	
design	



