

ABSTRACT

Welding mask are an instrument and safety equipment for workers, this device provide safety from wielding side effects. Workers usually don't want to use these equipment because has mass that too much and caused the center of mass shifted, making it dificult to wear properly and has irritating pysical contact that, because of these, many workers choose to pick shades glasses or similliar that doesn't met the requirement of safety standart. Beside there is alternative superrior product, even so, workers won't buy it because they can't afford. So modification need to be done to give an alternative way rather than buy new superrior product this way has to be done to reduve these problems so old product can be used with ease. With SCAMPER method, modification can be done to reduce several part of product or change small part to met the users conveniences. By reducing total mass, user can now use product with ease without having sight problem or by changing several part with better soft material that can reduce irritating physical contact.

Keywords: welding helmet, modification, physical contact, mass, safety