

ELECTRICITY AND ELECTRICAL SAFETY

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Every person knows what electricity is, but not everyone understands how dangerous it could be.

The history of electricity goes back to the 17th century. But people understood how to use it only in 19th century. Scientists and inventors have worked to decipher the principles of electricity since the 1600s. Some notable accomplishments were made by Benjamin Franklin, Thomas Edison, and Nikola Tesla [3].

Since that time electricity became an important part of our lives. The electricity that we use is a secondary energy source because it is produced by converting primary sources of energy such as coal, natural gas, nuclear energy, solar energy, and wind energy into electrical power. Nearly everything people use now works on it. You can't watch TV, drive a car, surf the internet without electricity. Electricity use has dramatically changed daily life

Despite its great importance in daily life, some people probably stop to think about what life would be like without electricity. Like air and water, people tend to take electricity for granted. But people use electricity to do many jobs every day—from lighting, heating, and cooling homes to powering televisions. But as friendly it is as dangerous it might be.

Statistics says that among all fatal accidents on enterprises, nearly 25% of workers die from electricity. It causes by problems with equipment or human factor. Many people, especially in our country understand the danger of electricity [2].

Dangers of electricity include a variety of hazards that include Electric Shock, Psychological Damage, Physical Burns, Neurological Damage and Ventricular fibrillation resulting in death.

Every form of energy, when not properly controlled or harnessed, can result in serious danger to those who use it. The risks inherent with electric power can generally be divided into two categories: direct and indirect. The direct danger is the damage that the power itself can do to the human body, such as stoppage of breathing or regular heartbeats, or burns. The indirect dangers of electricity include the damages that can result to the human body as a result of something caused by electric shock, such as a fall, an explosion, or a fire [1, p. 211].

To prevent such accidents, Electrical Safety was invented. Electrical Safety is the most important issue in the electrical industry. In every company, safety starts with a company's commitment to the health and safety of all its employees, electrical and non-electrical workers. Electrical professionals need to receive periodic but regular training on the proper care, maintenance, inspection and utilization of the electrical systems in industrial, commercial and institutional locations.

In conclusion it need to be mentioned that despite all the dangerous electricity provides it still helps people more and the only thing we should understand that we must be careful with it if we want electricity is our friend, not enemy.

References

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