

# Rajshahi University of Engineering & Technology

Course no: EEE 2100

Course title: Electrical Shop Practice

Project no: 01

Project title: Electrical safety uniform and equipment.

#### Submitted to:

#### Dr. Muhammad Abdul Goffar Khan

Professor

Department of Electrical & Electronic Engineering.

Rajshahi University of Engineering & Technology.

#### Submitted by:

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ID: 1801171 Section: C

Session: 2018-2019

Dept. Electrical & Electronic Engineering,

Rajshahi University of Engineering & Technology.

Date of submission: November 24, 2020.

Project no: 01

Project title: Electrical patety uniform and equipments.

Objectives: The main objectives of their project once,

- 1 To ensure wonker nately in wonking place.
- 2) To keep the workers uptodate with safety tooks and practices.
- 3 To educate workers about the proper protection requirement in hazandows work space.

## Apparatus:

- DSafety footwear / boots;
- 2 Safety botto;
- 1 Safety glamen;
- 4) Safety helmet;
- 5) Protective gloves;
- @ Mank

- (8) Viroibility vert; (8) Fine extingluisher; (9) Saddle ellp.

### **Project Picture:**



Equipment details:

Osafety footwear. There provides a recordary sounce of protection for you from electric shocks/electrocution. They also provide a protective reinforcement in the toe which protects the foot from falling object, burn cuts, punctures and impact.

Desafety bett: It's a device that is worn around to serve as direct connection point to a lifetime on elevated structure. It is worn to assest a fall and protect a worker from a suddentercent and amounted hazards when working at an elevated height.

Descript glarrers: safety glarrers are instended to shield the wearen's eye's from impact hazandra such as flying fragments, Objects, large chips and particles.

Disafety helmet: Safety helmets are person and protective equipments designed to protect the upper part of the workend head from falling/flying objects, impacts, burn, etectrical hazards etc. In the, industrious, construction and mining sites workers must be equipped with safety helmets. Helmets are designed to resist perfonation, water and fine.

- 6) Protective gloves: Protective gloves are needed to provent injuries to the hands and to comply with the hazard prevention hierarchy.
- Omask: Masks are used to avoid any direct contact with unknow gos, smoe and smokes that may be dangerous in the working process.
- Extraibility vest: High virilbility vest to any clothing that is highly terminescent in its natural matt property on a colon. That is early discensible from any background. Most industrial employens require it es a type of personal protective equipment (PPE).

The extinguisher: A fine extinguisher in am active fine protection device wed to extinguish on control remail fines, often in emergency ritualisms. It is not intended for use on an out-of-control fine such as one which has reached the celling endangers were on otherwise requires the expentise of a fine breigade.

they can be organized as, ABC, wheneas,

- 1 Claro A for trach, wood, paper.
- (1) alons & for liquido and gas.
- Dounces.

Resoult: No physical usage on practical showcase was done with there equipments.

#### **Bill of Materials**

Date: March 03,2020.

Title: Electrical Safety Uniform & Equipment's.

SL. No.	Date	Voucher	Name	Description	Quantity	Rate in BDT	Cost in BDT	Comments
1	15-02-2020		Safety footwear	These footwears provide a secondary source of protection for you from electric shocks or electrocution.	1 no.	600	600	A pair of safety footwear/boots were bought.
2	15-02-2020		Safety belt	A safety harness is a form of protective equipment designed to protect a person, animal, or object from injury or damage. The harness is an attachment between a stationary and non-stationary object and is usually fabricated from rope, cable or webbing and locking hardware.	1 no.	450	430	Taka 20 was discounted due to buying many items.
3	15-02-2020		Safety glasses	These glasses reduce the chances of an accidental electrical discharge and helps to minimize injury during an electrical accident.	1 no.	50	50	DEWALT Clear Anti-Fog Protective Safety Glasses were bought.
4	15-02-2020		Safety helmet	Safety helmets are designed for protection against accidental falls and protection from falling objects and additional protection from overhead live wires while working on live lines.	1 no.	200	200	A Yellow helmet for general laborer's or earth-moving operators were bought.
5	15-02-2020		Protective gloves	These gloves offer personal hand protection for workers against electrical shocks when working near or on live wires, cables and electrical equipment	1 no.	100	100	A pair of black gloves for protection of the hands while performing tasks involving chemicals and electrical was bought.
6	15-02-2020		Mask	This is used to avoid any direct contact with unknown gas, smog's and smokes that may be an impedance in the working process	1 no.	50	50	A safety mask was bought.
7	15-02-2020		Visibility vest	High-visibility vest is any clothing worn that is highly luminescent in its natural matt property or a color that is easily discernible from any background.	1 no.	400	400	A High visibility vest of orange color was brought.
8	17-02-2020		Fire extinguisher	A fire extinguisher is an active fire protection device used to extinguish or control small fires, often in emergency situations.	1 no.	700	700	
9	24-02-2020		Saddle nail clip		50 nos.	1	40	Taka 10 was discounted due to buying many items.
			•	Total cost=			2570	

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