

Dr Bhimrao Ambedkar University, Agra
Department of Physics, Institution of Basic Science
Value Added Course

on

Safety measurements of cell and Battery

Developed By: Prof. (Dr.) B P Singh

Duration 30 hours

Learning Outcome:

- What are cells & Batteries
- What are cells & Batteries types
- How cells & Batteries work
- Able to know the safety measures of cells & Batteries

Objectives of the course:

- Know about cells & Batteries
- Working of cells & Batteries
- What are safety measures of Cells & Batteries

Course Details

Introduction & Working (10 hrs.)

- Introduction of the Course
- Basic concepts of cells and batteries
- Types and Applications
- Advantages and Limitations
- Importance of safety precautions
- Battery components
- Working principle

Practical battery safety Hazard and Risk (10 hrs.)

- Battery Safety by Thermal effects
- Battery Safety by Electrical Abuses
- Battery Safety by Overheat charging hazards
- Potential risks related to batteries and cells
- Understanding the risks and consequences of mishandling or misuse

Safety Guidelines and Precautions (5 hrs.)

- Proper handling and storage procedures
- Importance of using the correct charger and compatible batteries
- Charging safety practices
- Safe disposal and recycling methods

First Aid and Emergency Response: (5 hrs.)

- Basic first aid techniques for battery-related accidents
- Responding to battery leakage or exposure incidents
- Contacting emergency services and seeking professional help

Note: The certificate for the course will be given on the basis of written Test, attendance and active participation in the class