Personal Protective and Emergency Equipment Guidance for Waste Treatment Partners

CD-21-92-001 Last updated: 24 August 2021

Introduction

This document was created to help third parties work safely with Tesla End of Life products and serves as a guide on the selection of Personal Protective Equipment (PPE) and Emergency Equipment for particular hazards and applications.
Selection and application of PPE always depends on an adequate pre-task risk assessment and must be in compliance with local regulations, norms, and standards.

For safe and effective us, PPE must be:

- Suitable for the purpose for which they are used
- Used properly in accordance with the manufacturer's instructions
- Well maintained in accordance with the manufacturer's instructions
- Safely stored in accordance with the manufacturer's instructions

Each Waste Treatment Partner is responsible for the proper selection of adequate PPE based upon a pre-task risk assessment. Tesla is not liable for any consequences arising from improper selection or use of PPE.

WARNING: Remove all jewelry (watches, bracelets, rings, necklaces, earrings, ID tags, piercings, etc.) from the body, and all objects (keys, coins, pens, pencils, tools, fasteners, etc.) from pockets before performing any procedure that exposes High Voltage.

WARNING: If corrective eyewear must be worn to safely perform any High Voltage task, ensure that the eyewear is securely affixed and cannot fall free during the procedure.

NOTE: Always follow manufacturers' instructions for maintenance and care of Personal Protective and Emergency Equipment.

Personal Protective Equipment

The list below provides a non-exhaustive overview of PPE that is recommended to use when working with High Voltage components, like High Voltage Batteries, Drive Units, etc.

Personal Protective Equipment	Hazard	Norm / Guide
Electrical insulating gloves	Insulated hand protection against electrocution hazard if present	Class 0 EN 60903
Over gloves	Mechanical hazard protection for the electrical insulating gloves if present	Class 0 and 00 EN 388 EN 407
Electrical arc rated clothing	Protection for body parts exposed to electrical arc hazards	IEC 61482 ISO 11612 EN 1149
EH rated Safety shoes	Protection for feet exposed to crush, penetration, slip, trip and fall hazards	S3 EN-ISO 20345 EN 13287
Eye / face protection	Protection for eyes and face exposed to sparks, liquids and particles	EN 166
Chemical resistant gloves	Protection for hands exposed to chemical hazards	EN 374-5 EN 388
Respirator with type ABEK+P3 filter (or air fed)	Protection for respiratory systems exposed to hazardous fumes	EN 136 EN 140 EN 141
Hearing protection	Protection for ears exposed to sound levels exceeding 80 dB(A)	EN 352
Bump cap or helmet	Protection for head and spine exposed to overhead impact hazards	EN 812

Emergency Equipment

The list below provides a non-exhaustive overview of Emergency Equipment that is recommended to use when working with High Voltage components, like High Voltage Batteries, Drive Units, etc.

Emergency Equipment	Application
Fire extinguisher (water)	To cool down a beginning thermal hazard if trained for and assessed to be safe
Safety hook	To separate a victim from contact with a live electrical source
Automated External Defibrillator (AED)	To defibrillate a victim's heart if affected by an emergency
Eye wash station	To provide first aid to the eyes if exposed to particles or chemicals
Burn shield kit	To provide first aid to the skin if exposed to thermal hazards
First aid kit	To provide first aid in general if exposed to hazards
Fire blanket	To suffocate fire that is smaller than the fire blanket
High voltage warning signs	To indicate potential high voltage hazards For details, refer to ISO 7010
Fire & arc warning signs	To indicate potential fire and arc hazards For details, refer to ISO 7010
Chain/barrier	To fence off the area where a vehicle or High Voltage Battery is located in order to restrict unauthorized access