



**FIM ELECTRIC MOTORBIKES PROCEDURES
FOR ORGANISERS AND OFFICIALS**

2024

Procedures for FIM Electric Motorbikes' Competitions

Introduction

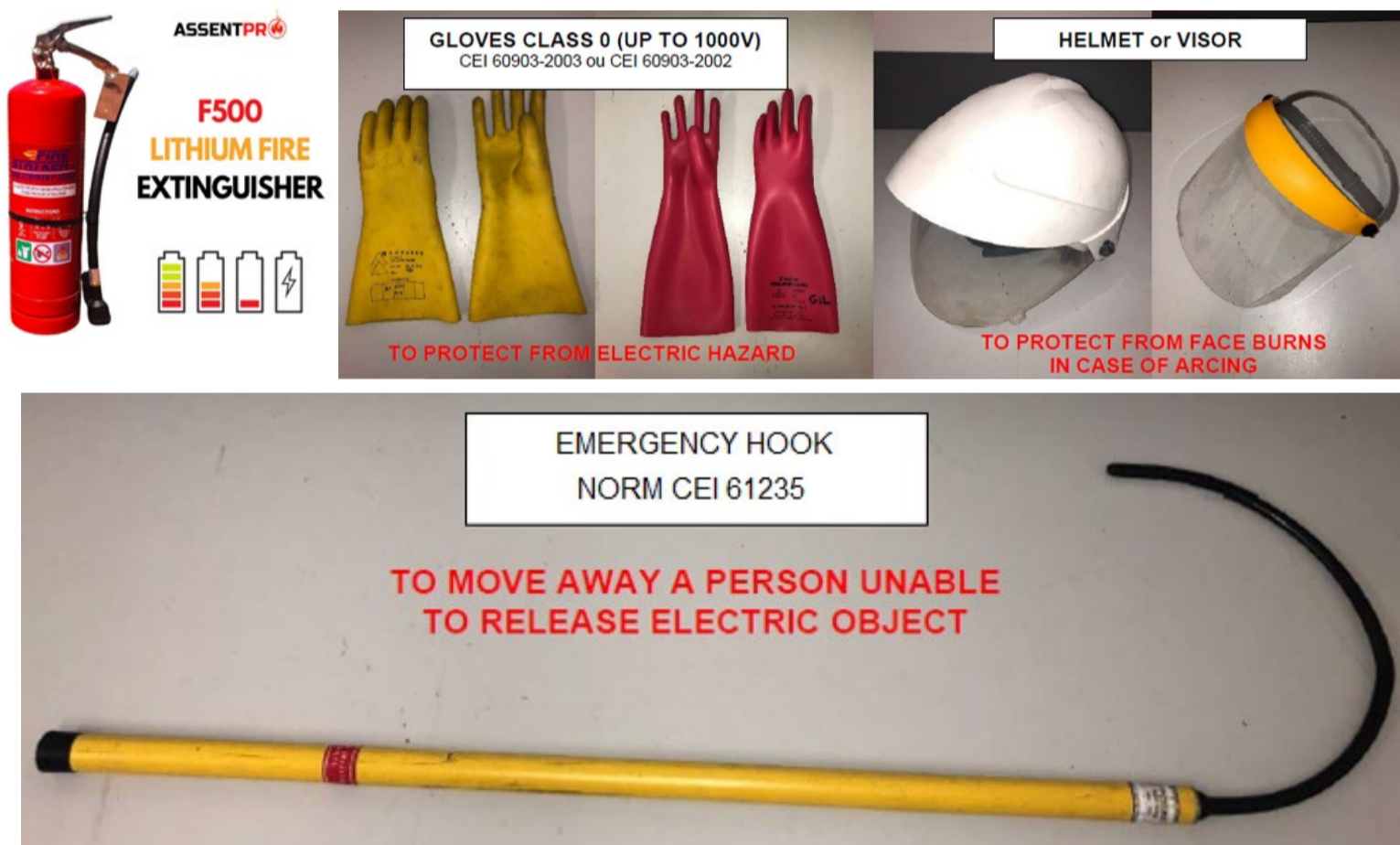
The following rules apply to all officials operating on FIM competitions where electric vehicles are present, except for the FIM MotoE, FIM Land Speed Records and FIM Drag Racing events.

Forewords: The Race Direction or Clerk of the Course must be in contact with the pits and track marshals at all time during the event by radio or walky-talky means.

The eligibility of Electric Motorbikes at FIM events remains subject to the approval from each concerned FIM Commission.

Article 1. Personal Protective Equipment:

The organiser or the promoter of the series must provide a minimum of 1 PPE set for electric safety (a safety hook, a pair of insulated gloves and an extinguisher) to be placed in each paddock and a minimum of 1 PPE set on the track for safety intervention.



The standards of the PPE are described in the FIM Electric Regulations for electric racing. Its highly recommend that teams or riders bring their own PPE sets and extinguishers.

Article 2. Duties of the Clerk of the Course and Technical Stewards

The Clerk of the Course must ensure that all the PPE sets are present and are in accordance with the FIM Electric Regulations in the paddock on their arrival and on the track before any testing or racing activity on the track.

The minimum number of sets will be specified by the regulations of each discipline.

When the teams or riders are required to provide PPE, the Technical Stewards must verify that the sets of PPE are in accordance with the FIM Electric Regulations.

The Clerk of the Course must identify one or several potential zones of quarantine on the track and paddock area.

The Clerk of the Course must brief and/or train the track marshals for the use of the PPE in case of accidents.

Article 3. Zones of quarantine

A zone of quarantine is a space where stopped and/or damaged electric vehicles or under unsafe status may be temporary placed in a case of danger or suspicion of electrical or fire danger. The Clerk of the Course must make sure that no-one enters the zone unless authorised by them.

The dimension of the Zone should be approximately 6m / 6m.

When a vehicle is placed in a zone of quarantine, a marshal must guard the zone, forbid access and alert the Race Direction or Clerk of the Course of any evolution of the vehicle.

Article 3.1 Zone of quarantine for outdoor events

The Clerk of the Course must pre-determined one or several zones of quarantine close to the track and close to the paddock in order to store the electric vehicle having electrical malfunction or severe crash or that are suspicious.

Article 3.2 Zone of quarantine for Indoor events

The Clerk of the Course must pre-determined 1 or several zones of quarantine close to the track and close to the paddock and also outside the venue in order to store the electric vehicles having electrical malfunctions or severe crash or that are suspicious.

In a case of a fire or overheating of an electric component or smoke, the vehicle must be immediately placed in the zone of quarantine outside the venue in an open-air area away from buildings, goods and public.

Article 4. Security for E-Bike (E1, E2, EX1 and EX2) or TrialE competition

In the case the quarantine zones cannot be pre-determined, a security perimeter must be set on the site of the incident due to the track layout or length of the course.

Security perimeter: A zone defined close to the track or the paddock with the help of the track marshals using tape or any material in order to prevent someone coming close to the bike.

For TrialE, the concerned section may be cancelled in case of an electric vehicle that cannot be evacuated.

Specificity for all "Class B" E-Bikes (>60V DC)

Before manipulating any Class B E-Bike, make sure that the main power button is switched off.

The following LED status will indicate when the E-Bike, can be touched safely or not after an accident:

LED status	Prompt	Meaning
GREEN	LEDs are permanently on. Power ON, voltage > 60V DC and Drive mode is OFF	SAFE
GREEN BLINKING	LEDs are blinking. DRIVE MODE IS ON	SAFE
RED	LEDs are permanently on. In a hazardous state (insulation failure, etc.)	NOT SAFE
NO LIGHT	When LEDs are not visible but bike is switched on.	NOT SAFE

Article 5. Rider or mechanics in the zone of quarantine

The rider or his mechanic maybe authorised to enter the zone of quarantine in order to take charge of the vehicle. The rider or his mechanic is responsible to make sure the vehicle is safe before returning to race or storage.

Article 6. Responsibility and safety precautions

The rider and his crew are responsible for the electric vehicle at all times. All the safety precautions must be taken during its storage, the charging, the racing, when an incident or accident occurs and when the vehicle is put in quarantine.

The rider or the team manager must ensure that all persons working on the electrical vehicle has the qualification, diploma and knowledge about electric safety procedures.

Article 7. Briefing of the marshals

Prior the start of the practice, the Clerk of the Course and the chief technical steward must brief the marshal for the use of the PPE and electric safety procedures.

In particular, the following procedures should be briefed:

- In the case of smoke or fire in the pits or paddock
- In the case of smoke or fire on the track & rider is in contact with the vehicle
- In the case of smoke or fire on the track & rider is not in contact with the vehicle
- In the case of a red LED indicators or LEDs switched off & rider is in contact with the vehicle
- In the case of a red LED indicators or LEDs switched off & rider is not in contact with the vehicle
- Other hazards, overheating, sparks, electric shocks, electrical disfunction, auto-riding, etc.
- In the case of a severe crash, the rider seems injured or not fit to ride and green LED indicators

Article 8 Procedures

When an incident or accident occurs, the marshals must bring and wear the PPE sets and extinguishers when approaching the vehicle. The procedures listed below must be followed in the specified order. However, several actions may require to be done simultaneously. For races organised in closed venues (indoor arena, etc.), additional requirements and procedures should be made according to the infrastructures and environment.

Article 8.1 In the case of smokes or fire in the pits or paddock

The marshals immediately inform the Clerk of the Course or race direction who alert the firemen.

The marshal evacuates the crew, the public or any person of the zone.

The marshals must not directly touch the vehicle.

The marshals use the extinguishers.

The rider or team can enter the zone when the conditions are safe.

Article 8.2 In the case of smoke or fire on the track & rider is in contact with the vehicle

The marshals immediately inform the Clerk of the Course or Race Direction indicating the rider and LED indicators status. The Race Direction or Clerk of the Course stops the session (red flag) and alert the firemen.

The marshals evacuate all the persons present in the zone.

The marshals must not directly touch the vehicle.

The marshals use the safety hook and separate the rider from the vehicle.

The rider must be checked by the medical crew.

The marshals use the extinguishers.

The marshals must take off the lanyard off the vehicle if possible.

The marshals must place the vehicle in the closest quarantine zone.

The vehicle must remain under surveillance.

Article 8.3 In the case of smoke of fire on the track & rider is not in contact with the vehicle

The marshals immediately inform the Clerk of the Course or race direction indicating the rider and LED indicators status. The Race Direction or Clerk of the Course stops the session (red flag) alert the firemen.

The marshals evacuate all the persons present in the zone including the rider.

The marshals must not directly touch the vehicle.

The marshals use the extinguishers.

The marshals must take off the lanyard off the vehicle if possible.

The rider must be checked by the medical crew if needed.

The marshals must place the vehicle in the closest quarantine zone.

The vehicle must remain under surveillance.

Article 8.4 In the case of a red LED indicators or LEDs are switched off & rider is in contact with the vehicle

The marshals immediately inform the Clerk of the Course or race direction indicating the rider and LED indicators status. The Race Direction or Clerk of the Course stops the session (red flag).

The marshals evacuate all the persons present in the zone.

The marshals must not directly touch the vehicle.

The marshals use the safety hook and separate the rider from the vehicle.

The marshals must take off the lanyard off the vehicle if possible.

The rider must be checked by the medical crew.

The marshals must place the vehicle in the closest quarantine zone.

The vehicle must remain under surveillance.

Article 8.5 In the case of a red LED indicators or LEDs are switched off & rider is not in contact with the vehicle

The marshals immediately inform the Clerk of the Course or Race Direction indicating the rider and led indicators status, the Race Direction or Clerk of the Course stops the session (red flag).

The marshals evacuate all the persons present in the zone.

The marshals must not directly touch the vehicle.

The marshals must take off the lanyard off the vehicle if possible.

The rider must be checked by the medical crew if needed.

The marshals must place the vehicle in the closest quarantine zone.

The vehicle must remain under surveillance.

Article 8.6 Other hazards, overheating, sparks, electric shocks, electrical disfunction, auto-riding, etc.

The marshals immediately inform the Clerk of the Course or Race Direction indicating the rider or mechanics and led indicators status.

The Race Direction or Clerk of the Course stops the session (red flag) if applicable.

The marshals evacuate all the persons present in the zone.

The marshals must not directly touch the vehicle.

The marshals must take off the lanyard off the vehicle if possible.

The marshals must place the vehicle in the closest quarantine zone.

The vehicle must remain under surveillance.

Article 8.7 In the case of a severe crash, the rider seems injured or not fit to ride and green LED indicators

The marshals immediately inform the Clerk of the Course or Race Direction indicating the rider and led indicators status. The Race Direction or Clerk of the Course decides if the session must be stopped or not.

The marshals evacuate all the persons present in the zone of the crash.

The marshals must take off the lanyard off the vehicle.

The rider must be checked by the medical crew.

The marshals must place the vehicle in the closest quarantine zone.

The vehicle must remain under surveillance.



***FEDERATION INTERNATIONALE
DE MOTOCYCLISME***