



Based at Moor Farm, Godshell, Isle of Wight, PO38 3JG

This document has been prepared in conjunction with the latest official Segway Inc. safety documents including:

- Getting Started Manual 20601-00001aa
- Reference Manual 20602-00001ab
- Instructional DVD 20600-00001ab
- Assembly Instructions Guide 21159-00001aa
- Reference Manual Supplement 21356-00001 Rev ac

The company's Terms and Conditions of Admission, Risk Awareness Guide and Risk Awareness Disclaimer should also be consulted.

It is a company policy that employees /volunteers read/observe all the above documents (including this Risk Assessment).

This document comprises of 6 pages

Written by Rich Mosdell on 1/2/2018, to be reviewed on 1/2/2019

## Description of the Hazard - Manual Handling

Risk Rating:

**LOW** MEDIUM HIGH

Who? Staff only

### Information Purposes Only

The weight of the Segway is 97 lbs or 44kg and the weight of the battery is 22.7 lbs or 10.3kg.

### Control Measures

Segway recommends that two people work together to lift the Segway PT.

To lift the Segway PT:

1. Make sure the Segway PT is unplugged and powered off.
2. Select firm, non-moving lifting points such as the Powerbase or lower cargo frames, if provided.
3. Lift the Segway PT with your legs, not your back. The Segway will only be lifted by two persons as guided by the diagram in the reference manual p82-83

## Description of the Hazard – Segway Malfunction

Risk Rating:

**LOW** MEDIUM HIGH

**Who?** Visitors and Staff

### Information Purposes Only

The Segway PT has been designed to self-diagnose system faults. If the Segway PT detects a fault in any of its redundant systems, the machine will automatically warn the rider with a beep, reduce its speed, give the 'Stick Shake' warning (shakes the handlebar and makes growling noises), flash the Balance Indicator lights, and the Info Key Controller displays an unhappy face.

### Control Measures

There are many indicators to warn the user of an imminent computer malfunction. Visitors will be fully trained in the use of a Segway before they step onto one. A part of the training will be identifying the above signs of system malfunction and guests will be asked to stop, dismount and to alert the instructor, who will be with the group at all times. The instructor will utilise the remote Info Key Controller to understand the fault. Battery must be checked for charge throughout the day.

The Segway units will be tested and operator accessible components/screws will be checked regularly, prior to visitor use. Records will be kept of these safety checks.

## Description of the Hazard – Participant Negligence

Risk Rating:

LOW **MEDIUM** HIGH

Who? Visitors and Staff

The safety sticker below is to be retained and in view on the device.



### Information Purposes Only

**Pre requisites** (age weight and health)

The minimum weight for the safe operation of the Segway is 100 lbs or 45 kg or 7 stone.

The maximum weight for the safe operation of the Segway is 260 lbs or 117 kg or 19 stone.

### Control Measures

Riders must be at least 10 years of age. There is a maximum supervision ratio set of 1 adult (18 or over) to 3 children (under 16).

Minimum requirements are detailed clearly on the Company's website, literature and Risk Awareness Documents and we reserve the right to request identification to confirm guests are within the above safe operating restrictions.

## During the tour

### Information Purposes Only

When operated correctly (and in accordance with the instructions given to all participants) the Segway PT is a safe vehicle to ride. However a fall could result from participants:

- not fully understanding their capability or limits with regards to controlling the Segway PT;
- who decide to ride the Segway PT in an inappropriate manner;
- who ride into obstacles (most likely with just one wheel or the undercarriage)
- who ride away from the designated tour or get lost and decide to explore an unauthorised tour route.

### Control Measures

Unattended Segways will be locked or security enabled when not in use. The control unit (or Info Key) which controls the device will always be kept separate to the Segway PT.

Before participants take part in a Segway Adventure Trek or Taster Session they are requested to read the Risk Awareness Guide which explains the entire experience.

Visitors receive all the training they need to successfully use the Segway before they explore the trails. They are required to listen to a safety briefing and will be fitted up with a compulsory helmet.

Following the training participants will be responsible for the safe operation of their Segway and for any under 16's that they have signed for. **The instructor will be with the group at all times.** The instructor will ask all participants if they are happy to continue before the adventure progresses onto the tour.

The Segway route is designed so that the Segway is used only on pre-determined routes along appropriate surfaces and wide pathways.

Visitors who have participated in a previous Segway experience will still be required to participate in the initial training session.

All riders will sign a Risk Awareness Disclaimer understanding that inappropriate riding of the Segway will result in their session ending immediately. It also covers the rule that anyone under the influence of alcohol or drugs will not be permitted to ride a Segway.

The training session is designed to ensure all participants are competent in the use of the Segway before the tour progresses to the trails.

## Description of the Hazard – Impact with Third Party

Risk Rating:

**LOW** MEDIUM HIGH

Who? Moor Active Visitors, Segway Participants and Staff, users of bridleways and footpaths through Moor Farm.

### Information Purposes Only

After the training session in our private area we will take participants on an instructor-led tour on a pre-determined route.

### Control Measures

The tour will only progress onto the trail once the instructor deems the group is competent in the use of the Segway PT. Riders will be assessed on their ability to control their speed and move forward, backward, left and right; as well as stepping on and off the PT platform.

It is important to note that learning to ride a Segway PT is not difficult and is a safe activity when participants follow the safety briefing offered to them at the start of their tour. However, the first part of the tour will be speed restricted, an increase in speed limit is at the discretion of the instructor.