

A One Day Course BATTERY SAFETY FOR MARKET SURVEILLANCE OFFICIALS

**To be held at
Thames Head Inn, Tetbury Road, Cirencester,
Gloucestershire. GL7 6NZ
on
Tuesday 20th February 2024 9.15am – 4.45pm
£190 + VAT inclusive of lunch and refreshments**

This one-day workshop has been arranged by Food and Farming Compliance Ltd. to provide training for market surveillance professionals and businesses in the science of battery safety and the analysis of battery risk in relation to product safety and corrective actions.

Battery operated products are ubiquitous, and more and more of the devices we use every day are powered by ever smaller and more powerful batteries, which if they fail, can create hazards which are a significant risk to those using the product and often to others in the vicinity.

This course will examine how batteries work, the legislative framework for products incorporating them, the appropriate conformity assessment processes to be undertaken to ensure safety, charging and discharging, failure and fault mode, and finally application of the PRISM Risk Assessment methodology for failures and determination of corrective actions.

Course Objective:-

At the end of the course delegates will be better equipped to undertake investigations involving battery failure and safety, and have knowledge of the science of battery safety and the legislative framework that underpins this in consumer products. There will be further development of skills in relation to fault and failure mode identification, examination of conformity assessment documentation and the ability to distinguish hazardous failure modes from safe ones.

For further information or assistance and to book your place:

Contact Nigel Durnford of Food and Farming Compliance Ltd.

- Telephone 01666 577723
- E-mail: nigel.durnford@foodandfarming.co.uk
- Please advise of any special requirements when booking for example, access, special facilities and or dietary requirements
- Following confirmation that the Workshop will be running an invoice will be sent.
- CPPD - 6 hours
- Please note: In exceptional circumstances changes may be made to the content, timing, speakers and/or venue.

Workshop Programme

09.15	<i>Arrival, Refreshments and Registration</i>
09.30	WELCOME AND INTRODUCTION Why you are here
	<i>Nigel Durnford, Partner Food and Farming Compliance Ltd.</i>
	TUTOR FOR THE DAY
	<i>Mark Gardiner,</i> <i>Mark spent 28 years as trading standards professional specialising in product safety as both a practitioner and manager.</i> <i>He is now a product safety, market surveillance and risk consultant and expert witness, undertaking contracts in the UK, EU and further afield, with clients including the Office for Product Safety and Standards, the European Commission and various national governments.</i> <i>Mark was the expert consultant for battery safety on the European Coordinated Action on the Safety of Products Joint Action in 2019.</i>
09.45	INTRODUCTION – HOW DO BATTERIES WORK? The science of electrical energy storage, cells and batteries, types of cells, voltage, current and power, battery management systems and safe design, standards.
11.00	<i>Refreshment break</i>
11.15	LEGISLATIVE FRAMEWORK Different types of products containing batteries, General Product Safety Regulations, Radio Equipment Regulations, Supply of Machinery Safety Regulations, conformity assessment and design verification.
13.00	<i>Lunch</i>
14.00	CHARGING AND DISCHARGING, FAILURE AND FAULT MODE, RISK ASSESSMENT How batteries charge and discharge, and the risks associated with this. Battery chargers and the regulations that apply to these. How batteries fail and the consequences of this in terms of risk and conformity. Testing and the results of the CASP 2019 project.
15.30	<i>Refreshment break</i>
15.45	BATTERY INVESTIGATIONS AND CORRECTIVE ACTIONS Carrying out a PRISM risk assessment on battery failures. Determination of risk management actions arising from this risk assessment, and the particular challenges presented by hazardous batteries.
16.30	SUMMING UP, QUESTIONS AND DISCUSSIONS
16.45	<i>Course Close</i>