Rechargeable Batteries E-Learning course:

Batteries become daily use components for many applications. In that course we provide detailed update on the primary battery technologies, Background, Characteristics and review of all primary battery technologies.

That course is a second basic course that each attendant for our E-Learning battery training needs to take.

Training content:

- **Why rechargeable batteries**
- **Rechargeable battery chemistries comparison**
- **Lead Acid batteries**
- **Nickel cadmium batteries**
- **Nickel metal hydride batteries**
- **Lithium rechargeable batteries**
- **Lithium rechargeable systems**
- **Lithium rechargeable anodes & cathodes**
- **Materials used by Li-Ion batteries**
- **Lithium rechargeable batteries – best performance**
- **Lithium rechargeable electrolytes**
- **Hard case cells - Advantages/Limitations**
- **Hard case cylindrical cells**
- **18650 cells for light electric vehicles**
- **18650 best cells in the market (LG, Samsung, Panasonic, Sony)**
- **The need for new sizes to replace 18650 size**
- **21700 size available models (LG, Samsung, Panasonic, Sony, Moli)**
- **Hard case prismatic cells**
- **Boston power cells**
- **Pouch cells**
- **Pouch cells technology direction**

- **Curved and step pouch cells**

- **Pouch cells advantages/limitations**
- **Pouch cells with liquid electrolyte**
- **Pouch cells swelling**
- **Hard case cells swelling**
- **Cylindrical Pouch cells**
- **Flexible pouch cells**
- **Lithium iron phosphate batteries**

- **Lithium iron phosphate batteries advantages/limitations**
- **Pouch cells with liquid electrolyte**
- **Why LFP cells are safe**
- **A123 Batteries**
- **LPF batteries as a replacement to lead acid batteries**
- **Valence batteries**
- **High voltage Li-Ion cells (4.3-4.45v)**

- **High voltage cells advantages/limitations**
- **Envia batteries**
- **Solid electrolyte lithium rechargeable cells**
- **Solid electrolyte batteries advantages/limitations**
- **Lithium Titanate oxide (LTO) batteries**
- **Why LTO batteries can be charged within 5 min**
- **Toshiba LTO batteries**

- **Leclanche LTO batteries**
- **Lithium Sulfur batteries**
- **What prevents the implementation of Li-S batteries?**
- **Oxis Li-S batteries**
- **Sion Li-S batteries**
- **Li-Air batteries**

Who Should Attend:

- **Battery and energy storage users**
- **Pack assemblers**
- **Cell makers**
- **Energy storage suppliers**
- **Academic researchers**
- **Energy storage/Power R&D engineers**
- **Organization Safety managers**
- **Battery shippers and disposals**
- **E-Mobility industry members**
- **others industry members**