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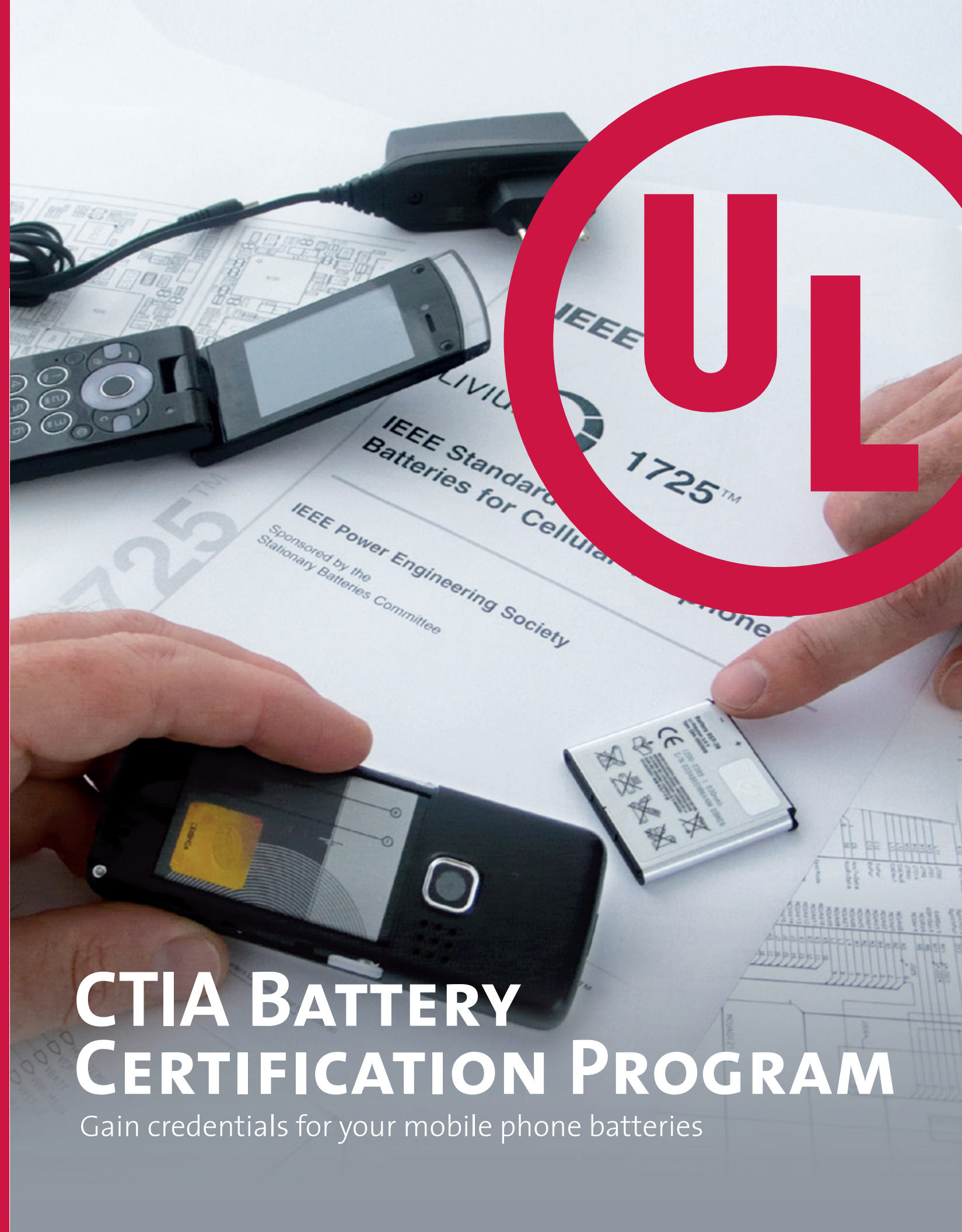
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CTIA BATTERY CERTIFICATION PROGRAM

Gain credentials for your mobile phone batteries



UL (Underwriters Laboratories) is a CTIA Authorized Test Lab (CATL) accredited by CTIA* – the Wireless Association®. UL offers flexible and cost-effective CTIA Battery Certification services to manufacturers and suppliers and provides them with industry recognition and international credentials.

CTIA Authorized Test Lab
LAB CODE 20090602-00

* CTIA is an international non-profit membership association founded in 1984 to represent all sectors of

wireless communications – cellular, personal communication services and enhanced specialized mobile radio. CTIA provides battery certification services through CTIA Authorized Test Labs (CATLs). A CATL evaluates Systems, Subsystems and manufacturing sites against criteria defined by CTIA.

PRODUCTS SUBJECT TO CTIA BATTERY CERTIFICATION PROGRAM:

- Battery Cells
- Battery Packs
- Power Supply Accessories
- Host Devices (Mobile Phones and Portable Computing Devices)

THE CTIA BATTERY CERTIFICATION PROGRAM BY UL FEATURES:

INDUSTRY RECOGNITION

CTIA certification is a requirement for manufacturers supplying cells, batteries, adaptors and mobile phones and portable computing devices to leading telecom providers like Verizon or AT&T in the USA.

INTERNATIONAL STANDARD CONFORMANCE

CTIA certification can demonstrate to your customers that your product is already in compliance with IEEE Standard 1725™ 1-2006, Standard for Rechargeable Batteries for Cellular Telephones or IEEE Standard 1625, Standard for rechargeable batteries for portable computing.

FLEXIBLE AND COST-EFFECTIVE SERVICE OPTIONS

The CTIA certification process can be combined with other UL battery testing and certification service options for “one-stop” approach, saving you time and money.

ABOUT IEEE 1725

Standard for Rechargeable Batteries for Cellular Telephones

IEEE 1725 (Cellular Telephone System Standard) establishes criteria for design analysis for qualification, quality, and reliability of rechargeable lithium ion and lithium polymer batteries for cellular telephone applications. Battery pack electrical and mechanical construction, packaging technologies and pack cell level charge and discharge controls and overall system considerations are also included in the standard. The purpose of this standard is to ensure reliable user experience and operation of cell phone batteries.

ABOUT IEEE 1625

Standard for Rechargeable Batteries for Portable Computing

This standard establishes criteria for design analysis for qualification, quality and reliability of rechargeable battery systems for portable computing. It also provides methods for quantifying the operational performance of these batteries and their associated management and control systems including considerations for end-user notification. The purpose of this standard is to ensure reliable user experience and operation of batteries in portable computing environments.

BENEFIT FROM THE EXPERTISE OF A GLOBAL COMPANY TRACK RECORD OF PROFESSIONALISM

UL's long experience in product testing and certification has earned it an outstanding reputation as the certification body of choice for leading manufacturers and suppliers worldwide. UL brings to the CTIA Program the same high standards of professionalism that it has become known for, and which have made the UL Mark a watchword for quality and safety.

ESTABLISHED BATTERY EXPERTISE

UL has more than 30 years' experience in the field of battery safety, and its expertise in testing and certifying battery cells and battery packs has been recognized by its designation as a CATL. UL already tests and certifies batteries against an ever-expanding list of UL and other standards including UL 1642, UL 2054, UL 1989, IEC 60086-4, IEC 62133, DENAN Ordinance Article 1, Appendix 9 and UN T1-T8 (IEC 62281).

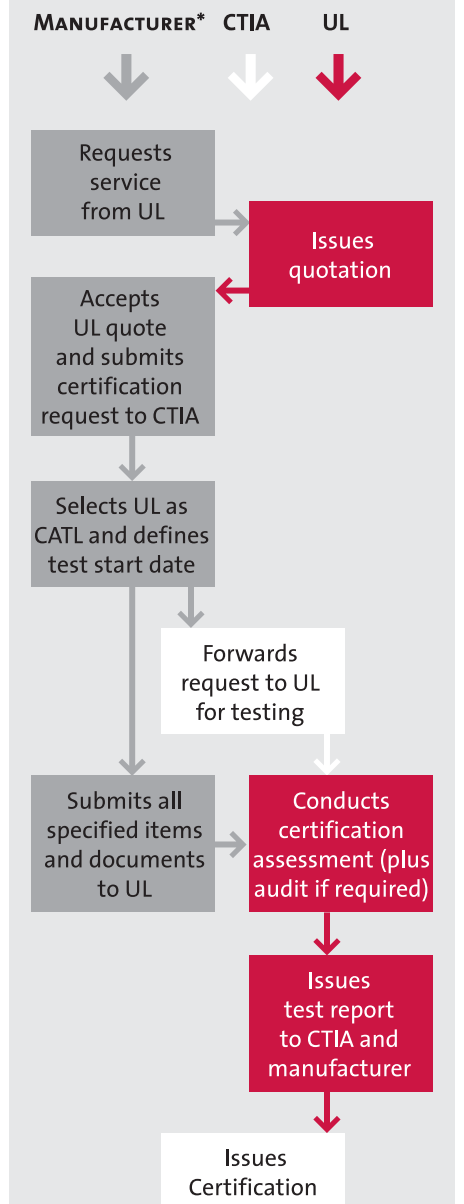
STRENGTH IN RESEARCH

In addition to this work, UL is involved in identifying hazards, developing test methods and setting standards, including its own UL 1642 and UL 2054 standards for Lithium Batteries and Household & Commercial Batteries respectively. UL has a dedicated R&D team for batteries, working closely with manufacturers, government agencies, regulators, major technology institutes and accreditation bodies. This research capability enables UL to anticipate changing requirements and be prepared for them. UL also offers related consultancy and training services.

POWERFUL CAPABILITY AND CAPACITY

UL has a worldwide force of qualified engineers, giving it the capacity and capability to assist even the largest clients in this field. It continues to invest in expanding capacity to meet increasing demand.

CERTIFICATION PROCESS



* MANUFACTURER OF SYSTEMS OR SUBSYSTEMS:

SYSTEM: A combination of cell(s), battery pack(s), host and adapter(s).

SUBSYSTEM: A cell, battery pack or adapter.

To recognize a System, all Subsystems should be recognized.

NOTE: Final invoicing to manufacturer by UL and CTIA is not shown.