



中国电气安全技术 法规与标准

**China National Technical Regulations
and Standards on Electrical Safety**

一、中国电气安全技术法规和标准体系

（China National Technical Regulations and Standards System on Electrical Safety）

我国目前没有一套完整的技术法规体系，但是现有技术法规体现在：

In China, technical laws and regulations are still incomplete at the moment. The available technical laws and regulations of China are reflected in the following laws and regulations:



我国技术 法规情况

The available
technical laws
and
regulations
of China

- ◆法律：标准化法、质量法、计量法
Laws: Law of Standardization,
Law of Product Quality and Law of Metrology
- ◆国务院条例
Ordinances promulgated by the State Council
- ◆部门规章
Regulations promulgated by ministries
- ◆地方人大批准的有关条例
Ordinances approved by local people's congress
- ◆国家强制性标准
Compulsory standards

根据标准化法规定：我国标准分为强制性标准和推荐性标准两类。

According to the *Law of Standardization of PRC*, China's standards can be divided into two major groups: **Compulsory Standards and Recommendatory Standards.**



保障人体健康，人身、财产安全的标准和法律、行政法规规定强制执行的标准是强制性标准，其他标准是推荐性标准。

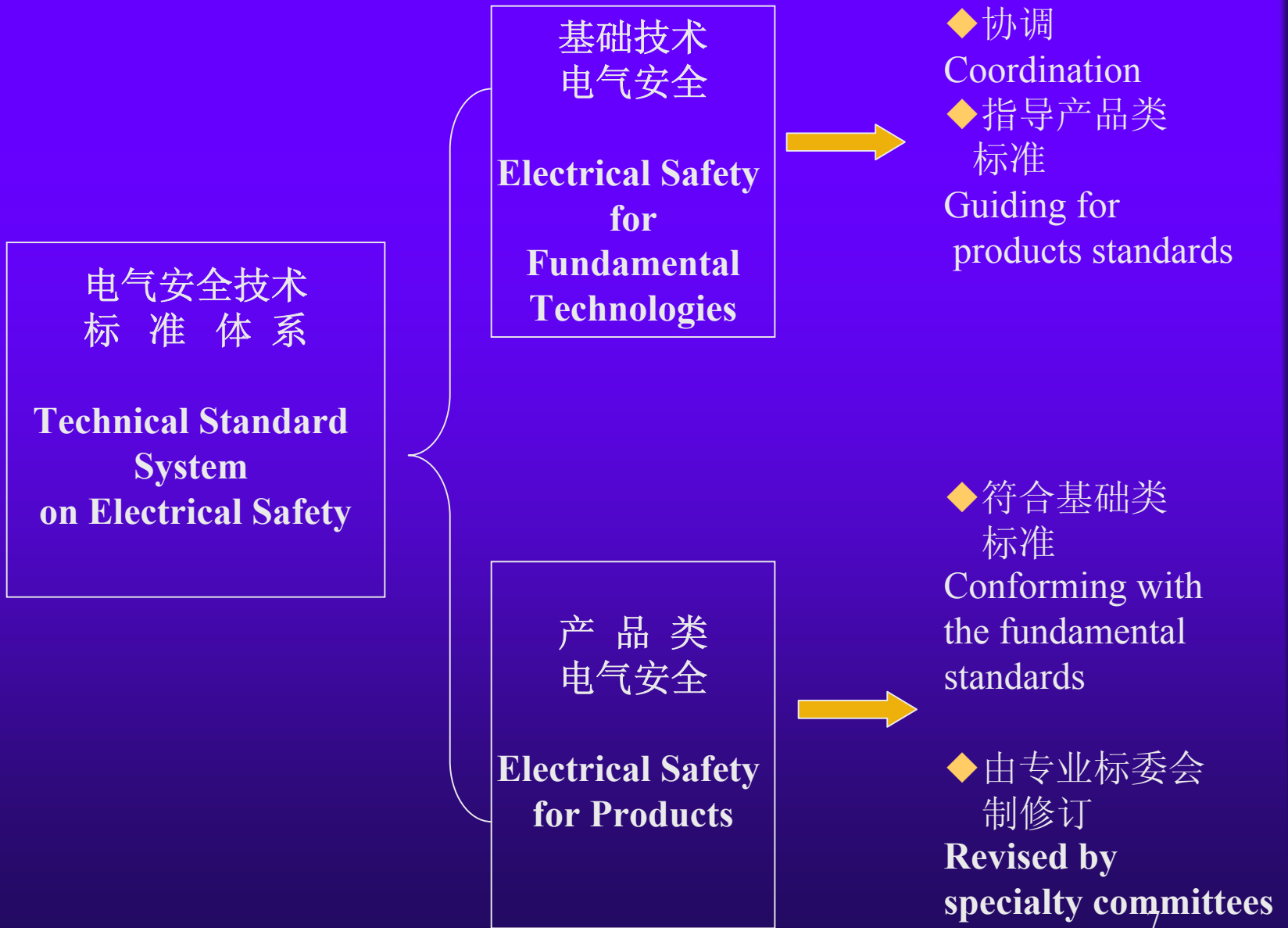
Those concerning safeguarding human health, personal and property safety and those stipulated as “compulsory execution” by laws or regulations are defined as the Compulsory Standards, and the rest fall under the Recommendatory Standards.



因此，我国的强制性标准是技术法规的组成部分。这与WTO/TBT规定的技术法规界定一致。

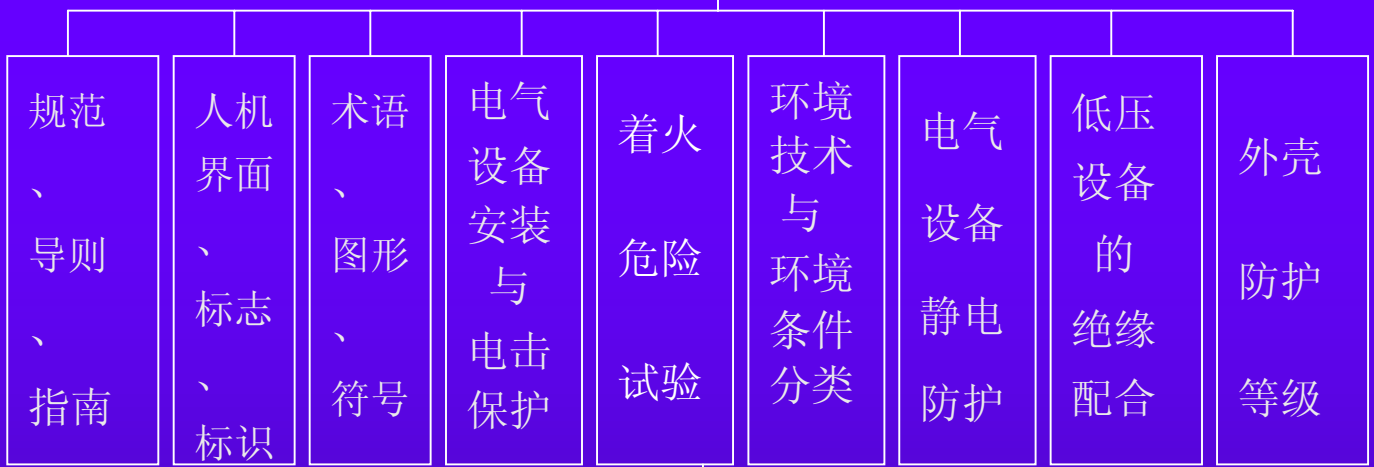
Therefore, China's compulsory standards are a constituent of its technical regulations. It is consistent to the definition of WTO/TBT on technical regulations.

中国电气安全技术法规与标准 China National Technical Regulations and Standards on Electrical Safety



电气安全标准体系结构图

基础标准



低压开关和控制设备

电线电缆

连接器件

绝缘材料试验方法

工业过程测量与控制系统

测量、控制和实验室设备的安全

光辐射安全和激光设备

超声波

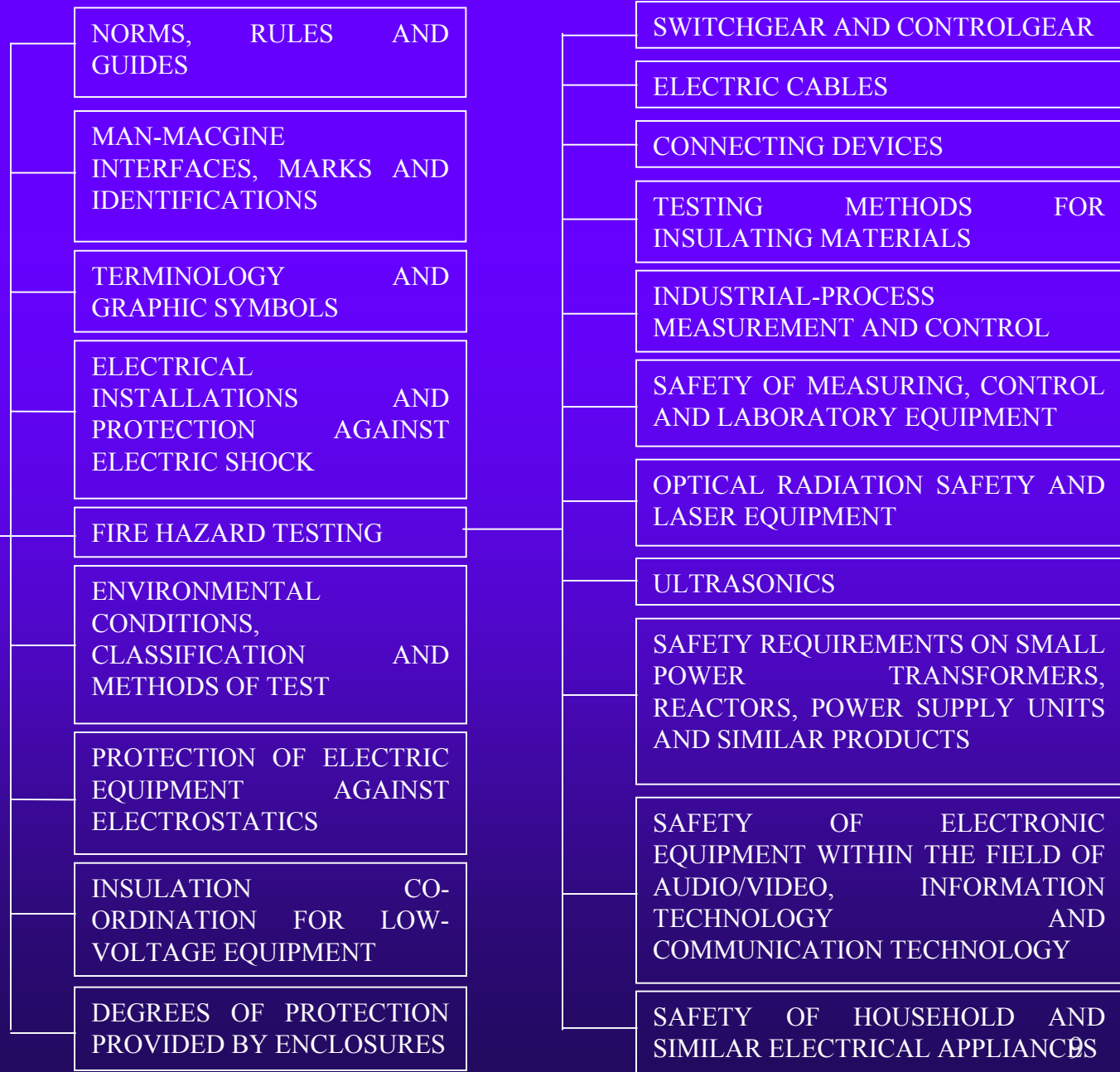
小型变压器、电抗器及电源装置的安全要求

音频/视频、信息技术和通信设备的安

家用和类似用途电器的安全



**Technical
Standard
System
on
Electrical
Safety**



二、全国电气安全标准化技术委员会

全国电气安全标准化技术委员会

秘书处：中国电器工业协会



II、China National Technical Committee for the Standardization on Electrical Safety

China National Technical Committee for the Standardization on Electrical Safety

Secretariat: China Electrical Equipment Industrial Association





国际标准化:
International
Standardization

- ◆ 对应
Targeting
- ◆ 关注
Watching
- ◆ 研究、转化
Researching
and Conversion



国内标准化:
Domestic
Standardization

- ◆ 协调
Coordination
- ◆ 制定
Formulation
- ◆ 提出建议
Submission
of Proposals

三、中国电气安全技术标准主要现状（Outline of Technical Standards on Electrical Safety in China）

1、基础技术领域的电气安全标准

Electrical Safety for Fundamental Technologies

- ◆ 强制性标准：由涉及技术规范、安全要求、标志、标识等构成

Compulsory standards: consisting of relevant technical norms, safety requirements, marks, identifications and so on.

- ◆ 推荐性标准：由导则、指南、图形符号、通用要求等标准构成

Recommendatory standards: consisting of rules, guidances, graphic symbols, general requirements and so on.



2、产品类技术领域的电气安全标准

Electrical Safety for Products Technology

- ◆ 绝缘材料 (Insulating Materials)
- ◆ 低压开关和控制设备 (Low-voltage Switchgear and Control Gear)
- ◆ 电缆 (Electric Cables)
- ◆ 电力电子学 (Power Electronics)



- ◆ 电器附件 (Electrical Accessories)
- ◆ 家用和类似用途电器 (Household And Similar Electrical Appliances)
- ◆ 电动工具 (Hand-Held Motor-Operated Electric Tools)
- ◆ 测量、控制和试验室设备的安全 (Safety Of Measuring, Control And Laboratory Equipment)



- ◆ 光辐射安全和激光设备 (Optical Radiation Safety And Laser Equipment)
- ◆ 小型变压器、电源及类似设备的安全 (Safety of Small Power Transformers, Power Supply Units And Similar Products)
- ◆ 音频/视频、信息技术和通讯技术电子设备的安全 (Safety Of Electronic Equipment Within The Field Of Audio/Video, Information Technology And Communication Technology)

四、新制订的《国家电气设备安全技术规范》（参照欧盟低电压指令73/23/EEC）基础标准简介

Briefing about the newly-formulated *National Technical Norms on the Safety of Electrical Equipment* (Reference: EU Low Voltage Directive 73/23/EEC)

国家电气
设备安全
技术规范

*National
Technical
Norms on the
Safety of
Electrical
Equipment*

- ◆ 编制结构
Structure
- ◆ 使用范围
Applicable Scope
- ◆ 安全通用要求
Safety requirements
- ◆ 安全技术要求的主要内容
Content of the Safety requirements

五、中国电气安全标准近期主要工作

(Recent Efforts on China's standardization for electrical safety)

——研究国际有关电气安全法规、指令、导则，组织我国法规和标准的制定

Conducting research on international laws, regulations, directives and guides for electrical safety and organizing to formulate concerning laws and regulations of China.





——受政府部门委托（科技部、商务部），承担国家有关安全、环境等技术法规与标准的研究

Accepting commissions from governmental departments (i.e. Ministry of Science and Technology, Ministry of Commerce) to undertake national research projects on technical laws and regulations concerning safety and environment.

——推进电气安全标准的实施

Promotion for execution of the standards on electrical safety.

——配合国家认证机构，开展认证标准的协调

Assisting the state certification agencies and coordinating the effort on relevant standards.



谢谢！

Thank you !