Electrical Appliances Safety Management System

in the Republic of Korea

May 2009

Korean Agency for Technology and Standards(KATS)

Electrical Appliances Safety Management System

1. Electrical Appliances Safety Control Act

2. Electrical Appliances Safety Certification System

3. Electrical Appliances Self-Regulatory Safety Confirmation System

4. Comparison of the existing Safety Management Systems

5. Introduction of Manufacturers' Test Results Recognition System

6. Introduction of Supplier's Declaration of Conformity (SDoC)

1. Electrical Appliances Safety Control Act

To protect consumers from hazards and accidents such as fire, electric shock and injury

Safety Certification System and Self-Regulatory Safety Confirmation System

Jan. '09~ Now

Safety Certification System

July '00~ Dec. '08

Type Approval System

July '74~ June '00

Scope

Designated electrical appliances rated at between 50V and 1,000V AC

2-1. Safety Certification System

- Verify safety of products by product testing and factory inspection procedures to confirm manufacturers' continual capability to produce safe products. (Issue A Safety Certificate)

- Confirm maintenance of product safety by follow-up activities including product verification testing and annual routine factory inspection after issuing of safety certificate.

  ※ Apply to 53 kinds of designated electrical appliances and components including washers, copiers and others

2-2. Procedure for Safety Certification

Korean Agency for Technology and Standards (KATS)

⬇ Designate

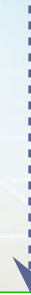**Safety Certification Bodies**
KTL, KETI, ERI

① **Apply for safety certification**

② **Conduct Product Testing and Factory Inspection**

③ **Issue a Safety Certificate**

④ **Follow-ups**

Applicants (Factory)

2-4. Electrical Appliances subject to the Safety Certification

53 electrical appliances are subjected to the Safety Certification

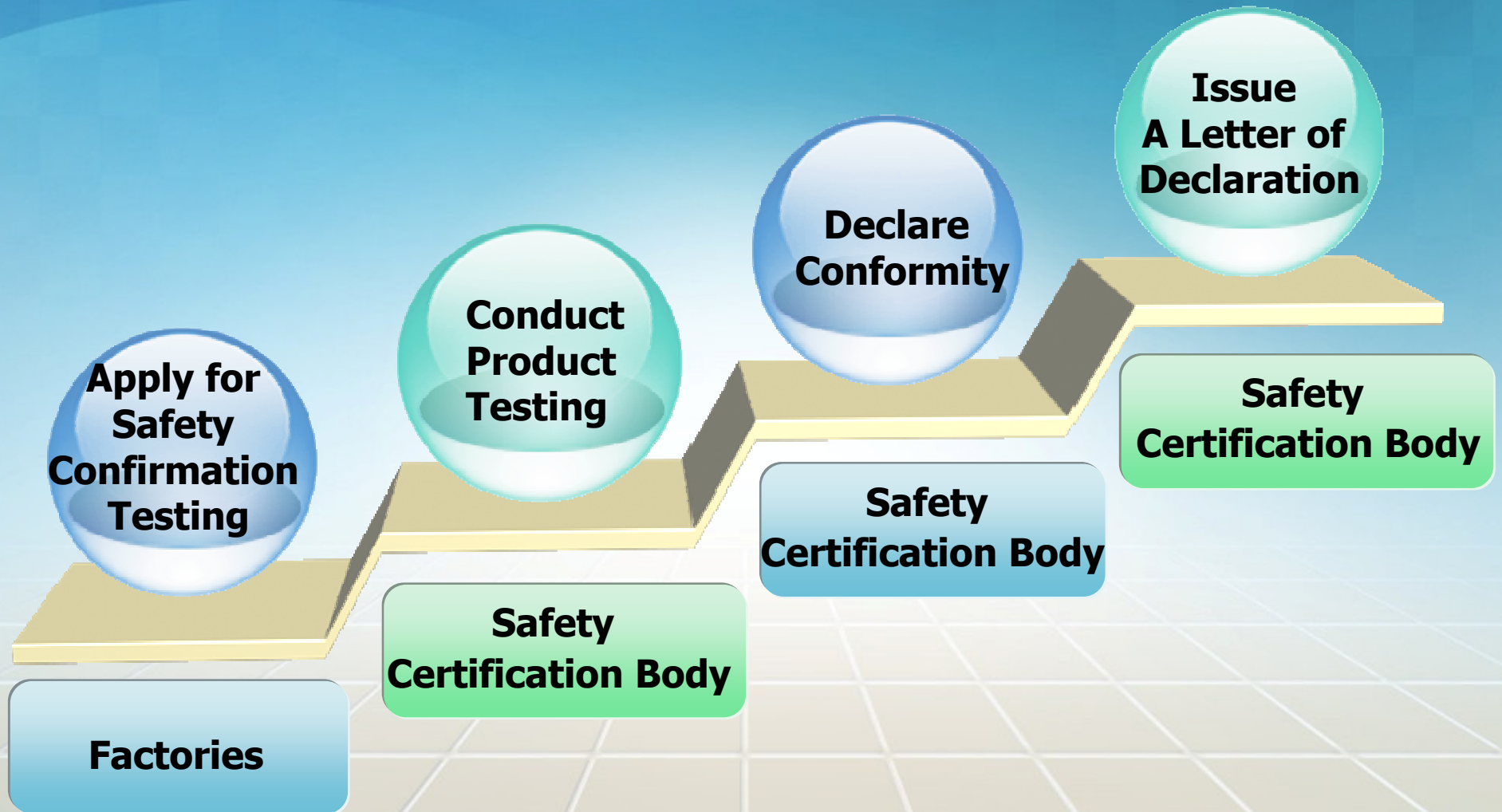**Mandatory Certification (53 items)**

1. Cables and cords : 1 item including electric wires and cables
2. Switches for electrical appliances: 2 items including switches and magnetic switch
3. Capacitors: 1 item including X, Y capacitors
4. Installation Accessories: 1 item including installation accessories and connection devices
5. Installation protective equipment: 2 items including fuse and circuit breaker

6. Insulating Transformer: 1 item including transformer and voltage regulator
7. Household & similar equipment: 36 items including washers
8. Portable tools: 1 item including electric tools
9. Audio/video: No items
10. IT and Office equipment: 4 items including copiers
11. Lighting: 4 items including lamp holders

3-1. Self-Regulatory Safety Confirmation System

- **Conduct only product testing to assure product safety (Issue A Confirmation Letter of Declaration)**

- **Exempt follow-up procedures such as routine factory inspection and product verification testing applied to the safety certification system**
  - ➔ **Validity Period of Declaration of Self-Regulatory Safety Confirmation: 5 years**

  - ※ **Apply to 95 kinds of lower-hazard electrical appliances including audio and video equipment and intelligence devices**

3-2. Declaration Procedure for Self-Regulatory Safety Confirmation

Apply for Safety Confirmation Testing

Factories

Conduct Product Testing

Safety Certification Body

Declare Conformity

Safety Certification Body

Issue A Letter of Declaration

Safety Certification Body

3-3. Electrical Appliances subject to Self-Regulatory Safety Confirmation

95 lower-hazard electrical appliances were designated as the products subject to the self-regulatory safety confirmation

Electrical Appliances subject to the self-regulatory safety confirmation (95 items)

1. Cables and cords: No items
2. Switches for electrical appliances: 1 item including control element for electrical appliances
3. Capacitors: No items
4. Installation Accessories: No items
5. Installation protective equipment: No items
6. Insulating Transformer: 2 items including high frequency weld

7. Household & similar equipment: 35 items including apple peeler
8. Portable tools: No items
9. Audio/video: 34 items including TV
10. IT and Office equipment: 18 items including monitors
11. Lighting: 5 items including fluorescent lamps

4. Comparison of the existing Safety Management Systems

		Safety Certification	Self-Regulatory Safety Confirmation
Product Testing	Safety Test	○	○
	EMC Test	○	○
Factory Inspection	Manufacturing Facilities	○	X
	Measuring Equipment	○	X
	Technical Capability	○	X
	Manufacturing Quality System	○	X
Issuance		Issue A Safety Certificate	Issue A Declaration Letter
Follow-up Activities (Product Verification Testing + Routine Factory Inspection)		○	X

5. Introduction of Manufacturer's Test Results Recognition System('2010)

> **With a certain level of testing capability, the system allows manufacturers to conduct product testing normally performed by certification bodies.**

- **Certification Bodies issue「A Safety Certificate」and 「A Confirmation Letter of Declaration of Self-Regulatory Safety Confirmation 」after reviewing and verifying all test results submitted from manufacturers**

6. Introduction of Supplier's Declaration of Conformity ('2012)

Manufacturers themselves shall assume responsibility, while they can manufacture and sell their products after assuring themselves for the safety of products

- Apply preferentially to lower-hazard products among new products and products subject to the self-regulatory safety confirmation

Procedure for Supplier's Declaration of Conformity

Confirm whether products comply with the safety requirements through product testing   ‖___▶   Sales

* Possible to ask a third party to conduct product testing

Thank you