



## AWARENESS TRAINING

# TE GREEN PROCUREMENT GUIDELINES

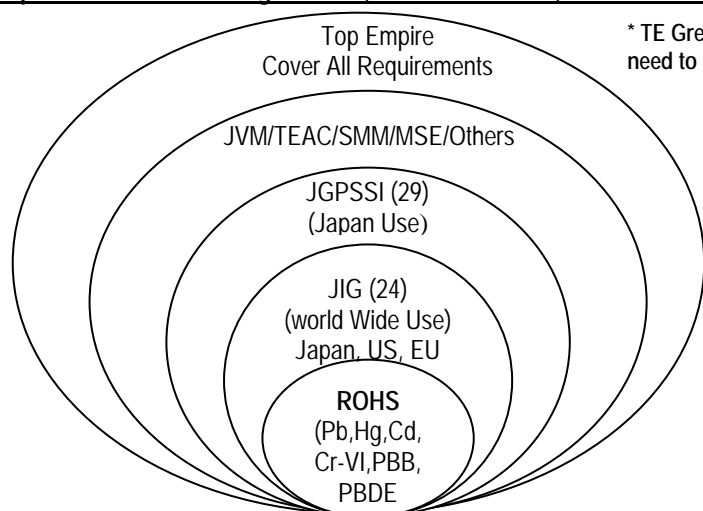
**IMPLEMENTED** in Top Empire Sdn.Bhd on 01 Jan 2006.

### OBJECTIVES.

- To procure environmental-friendly parts and materials by defining the control rank of the environment related substances contained in parts and materials that are assemble PWB in Top Empire Sdn, Bhd..

### GREEN PROCUREMENT GUIDELINES

Based on the current environment regulatory, TE has determined that certain substances should be controlled based on The Japanese Laws and Regulations, ROHS Directive, WEEE Directive, \* JGPSSI and TE Internal Guidelines.



\* TE Green Procurement Requirement is bigger as we need to comply with customer delight and requirements.

#### GREEN PROCUREMENT GUIDELINES.

- Japanese Laws and Regulations
  - Protection of the Ozone Layer
  - Examination and Regulation of Manufacturing of Chemical Substances
  - Industrial Safety and Health Law
  - Prohibition of Chemical Weapons
- Other Laws and Regulations
  - ROHS Directive
  - WEEE Directive
- Substances requested by customers as well as those specified by \* JGPSSI (Japan Green Procurement Survey Standardization Initiative)
- TE internal guidelines
  - TE in-house controlled substances
  - TE Green Procurement related substances of PWB. (substances related to semiconductor)

### ROHS And WEEE Directive

ROHS	WEEE
<b>Definition:</b> Restriction Of hazardous substances in Electrical & Electronics Equipment	<b>Definition:</b> Waste of Electrical and Electronics Equipment
* Beginning of product cycle.	* End of product cycle.
* Reduce the amount of hazardous materials entering electronics products.	* Reducing the amount of electronics entering the landfills
* <u>Purpose</u> -To protect human health / environment by restricting the use of certain hazardous substances in new equipment -To restructure the use of hazardous substance in electrical and electronics equipment -To recovery and disposal of Waste Electrical and Electronic Equipment (WEEE)	* <u>Purpose</u> - Improve manufacturers' designs to reduce the creation waste - Make manufacturers responsible for certain phases of waste management - Separate collections of electronic waste (from each types) - Create systems to improve treatment, refuse, and recycling of WEE

\* ROHS Restricted Materials ( 6 Substances that must be removed, reduced to within maximum permitted concentrations)

- 1- Cadmium (Cd)
- 2- [Lead \(Pb\)](#),
- 3- Mercury (Hg),
- 4- [Hexavalent Chromium \(Cr-VI\)](#)
- 5- [Polybrominated Biphenyls \(PBB\)](#)
- 6- [Polybrominated Diphenyl Ethers \(PBDE\)](#)

(For the healthy effect refer to: TE-WI/QA/ISO 14001/012)

\* Goal of WEEE: Collection, treatment, recycling and disposal

## EFFECTIVE DATE

Effective 1<sup>st</sup> July 2006.

## CATEGORIES OF PRODUCT AFFECTED BY ROHS & WEEE DIRECTIVE

- Large factory / household appliances
- Small factory / household appliances
- IT and telecommunication equipment
- Consumer equipment
- Lighting equipment
- Electrical and electronic tools (with the exception of large – scale stationary industrial tools)
- Toys, leisure and sports equipment
- Automatic dispensers

\* *Exemption : Military and Aerospace sector.*

## WHO MUST ENSURE COMPLIANCE WHEN IMPORTING/EXPORTING TO THE EU?

1. Anybody producing products who then attempts to sell in the EU market .
2. The agent who introduces the goods into the EU.

\* *Exemption : Couriers and freight carriers.*

## WHAT HAPPENS IF NOT COMPLY?

### a. Persons in Breach Of Regulations

- maximum of 3 months in prison and a £5,000 fine.

### b. Indictment/Charge

- *maximum of 2 years in prison and an unlimited fine.*

## EMPLOYER AND EMPLOYEE RESPONSIBILITY

RESPONSIBILITY	HOW
1. Minimize overall impact on the environment	Reduce waste from manufacturing processes by reusing and recycling materials.
2. Use energy-saving product to conserve the earth's resources.	Provide innovative energy-saving product
3. Reducing and eliminating hazardous materials in assemble process of PWB.	Work with suppliers and customers to define needs and implement solutions to track, manage and discontinue usage.
4. Promoting recycling and reusing materials whenever possible	Consider waste as a resources and waste management as an opportunity for development and environmental improvement
5. Preventing pollution through waste and emission management.	Strictly manages chemical substances and waste materials to prevent environmental pollution
6. Purchase of products or goods	Only purchase environmental friendly goods and comply with green procurement guidelines

- RoHS ~ Restriction of Hazardous Substances
- WEEE ~ Waste Electrical and Electronics Equipment