

A Support Programme for Assisting Hong Kong SMEs To Effectively Achieve Hazardous Substances Compliance through Adoption of IECQ QC 080000 Hazardous Substances Process Management System

Funded by



Organized by



Implemented by



IECQ QC 080000, Chemical Risks and Product Recall Workshop (2) Part I

Perry Chan
Hong Kong Productivity Council
08 May 2015

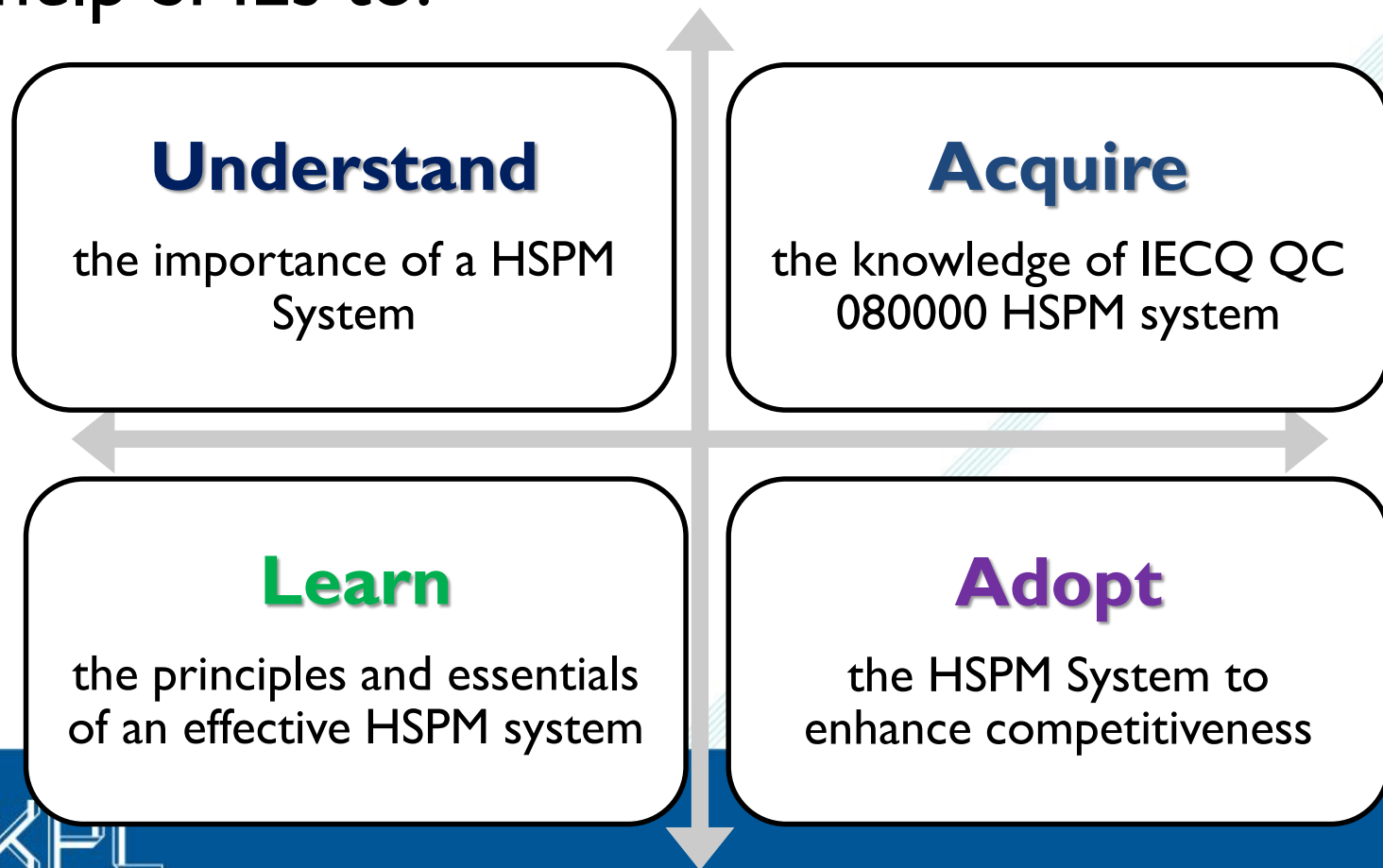
SME Support Programme to Adopt IECQ QC 080000 HSPM

協助中小企透過實施IECQ QC 080000有害物質控制管理系統有效達致符合有害物質要求的支援計劃



How do We Assist SMEs?

- A 18-month Support Programme, aiming to help SMEs to:



Initiative I – Seminars and Industry Outreaches

Activities:



2 Seminars – October
2014 and March 2015



Visits to 10 industry
associations

Beneficiaries:

- **Companies** seeking effective hazardous substance management
- **Industry associations** representing SMEs

Initiative 2 – Industry Consultation Visits and e-Fact Sheets

Activities:



On-site visits to 10 pioneer companies



Production of 10 e-Fact sheets

Beneficiaries:

- **Pioneer companies** of IECQ QC 080000 implementation and hazardous hazardous substance management
- **e-Fact sheets will be uploaded to website** for widespread sharing

Initiative 3 – Online Practical Guide

Activity:



Production of an online step-by-step guide for effective QC 080000 implementation

Beneficiaries:

- **Key personnel** responsible for hazardous substance management for their management for their companies, **factory managers**, **compliance managers**, etc.

Initiative 4 – Product Recall Workshops

Activity:



Organizing 2 workshops to address legal issues, compliance strategies, emergency plans and action in case of product recall

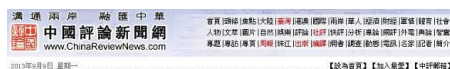
Beneficiaries:

- **Key personnel** responsible for hazardous substance management for their management for their companies, **factory managers**, **compliance managers**, etc.

Business Needs in Mitigating Chemical Risk

BACKGROUND

NEWS OF UNSAFE PRODUCTS ARE EVERYWHERE!



被美國召回玩具確含毒 香港公司經營深圳生產
http://www.chinareviewnews.com 2007-11-11 09:07:12

中評社香港11月11日電／新華網報導，國家質檢總局10日公佈了對日前被美國召回的上百萬件中國產玩具和有關企業的初步調查結果。結果表明，玩具含有毒成分。

美國消費安全委員會8日召回了420萬件自中國出口的彩珠拼圖玩具。召回原因是兒童在吞食彩珠後，產品中所含的化學物質成分對其造成了傷害。

質檢總局應港府此舉，迅速與美國消費安全委員會聯系，並立即對國內有關企業和產品進行了調查。

初步調查結果表明，這批玩具是由樹脂材料經軟化注塑製成。企業在生產過程中，選用「1，4-丁二烯」作為軟化劑。「1，4-丁二烯」具有毒性，但日前國內有關玩具產品的化學安全標準中對「1，4-丁二烯」含量的限量要求。

質檢總局抽樣檢測表明，該產品中含有1.5%的「1，4-丁二烯」成分。

全球毒垃圾塞爆香港

星島日報 星島日報 - 2014年12月24日星期三上午9:56

【本報訊】香港目前正被大量中外廢品垃圾塞爆，數十萬市民對此表示強烈不滿。



星島日報 香港目前正被大量中外廢品垃圾塞爆，數十萬市民對此表示強烈不滿。

（綜合報導）星島日報報導，本報發現大量「洋垃圾」近期因內地廢打機勒令退運，部分港商人手搬大量收買，連同俗稱「地產料」的內地生產剩餘物料，轉售予本地回收商。當中包括連綠島廢塑膠的「電子垃圾」，令中外廢品大量湧港。回收場往往因分銷後，外來廢品堆滿一樓成為「本地垃圾」。業界估計每年至少逾二十七萬噸垃圾運往堆填區，等同每天要拖近四十個滿載廢品的貨櫃，有業界擔心香港會引致環境大災難。

「香港回收」（退運）廢品廢料、不良品、殘次品、廢舊電子產品，包銅鋁銀器。近年本港不少回收商紛紛在內地錄單或設廠賣廢，將收購廢品廢料的焦點放在內地，與過往外界認為香港只是「洋垃圾」進入中國的轉口港角色，大變身回收中外垃圾。

Back-to-school study finds high levels of phthalate chemicals in kids backpacks, supplies

13 Comments / 447 Shares / 95 Tweets / 0 Stumble / 0 Email / More



Children's backpacks found to be center for phthalate chemicals, study says. (CBS News) Children's backpacks found to be center for phthalate chemicals, study says.

(CBS News) Children's backpacks found to be center for phthalate chemicals, study says. (CBS News) Children's backpacks found to be center for phthalate chemicals, study says.

The Telegraph

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HOME - NEWS - WORLD NEWS - ASIA - CHINA

'One third of Chinese toys contain heavy metals'

Almost one in three toys in China contains heavy metals, with one in 10 containing excessive levels of lead, according to new research.



Researchers from Greenpeace and PEV, which campaign against chemical pollutants, bought 500 toys and children's products in five Chinese cities in November, including Beijing, Shanghai and Hong Kong. Photo: AFP/Getty

PHYS.ORG

Home » Medicine & Health » Health » November 22, 2010

Cadmium, lead found in drinking glasses

Nov 22, 2010 by JUSTIN PRITCHARD, Associated Press



This Sept. 9, 2010 photo shows an Olympus Innov-X Delta Handheld XRF Analyzer testing glassware decorated with a Ronald McDonald character for cadmium, lead and other toxic elements in Los Angeles. The device is used for the analysis of -- more

(AP) -- Drinking glasses depicting comic book and movie characters such as Superman, Wonder Woman and the Tin Man from "The Wizard of Oz" exceed federal limits for lead in children's products by up to 1,000 times, according to laboratory testing commissioned by The Associated Press.

Business Needs in Mitigating Chemical Risk

BACKGROUND

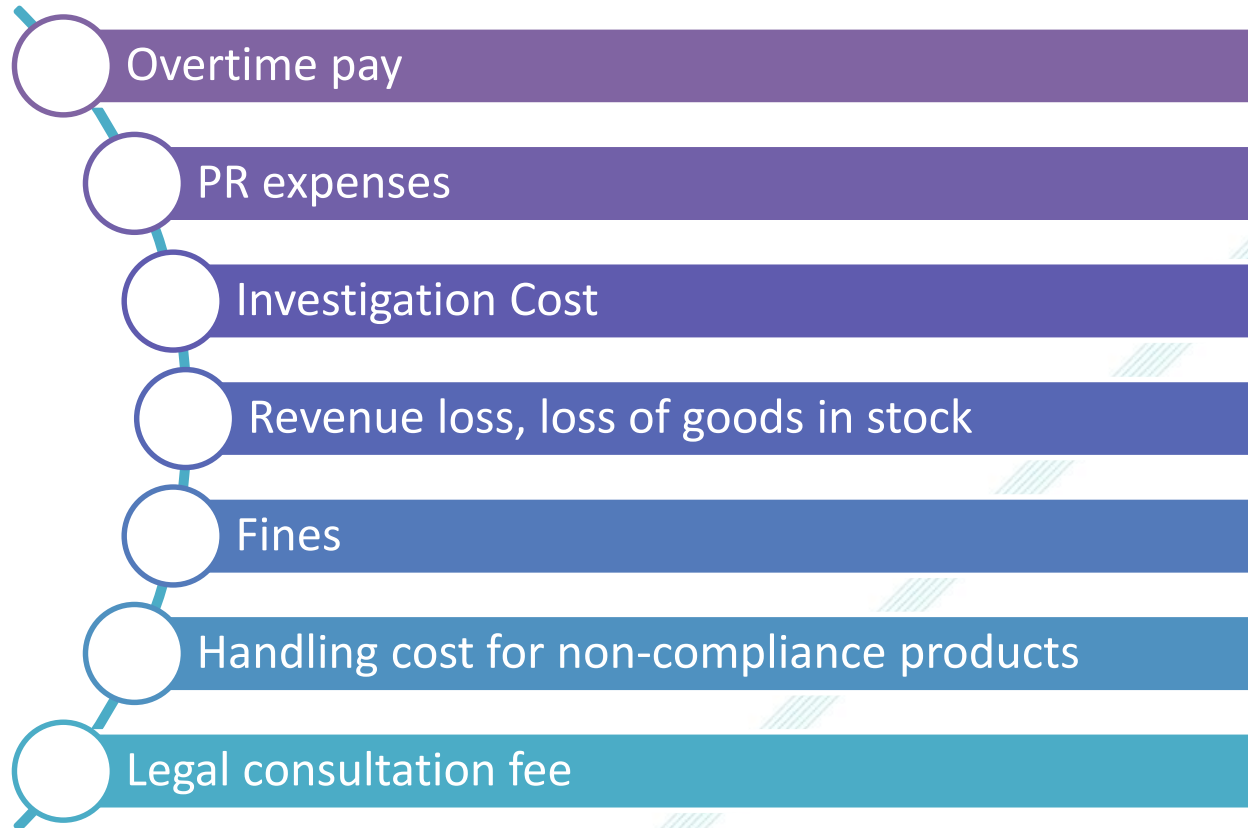
PRODUCT RECALLS -> FINANCIAL LOSS

Year	Company Involved	Cause	Financial Loss (USD)
2001	Sony	Excessively high Cadmium (Cd) in PlayStation Consoles during Christmas	\$150 million in lost sales and product reformulation
2006	Mattel	Lead (Pb) in paint in Barbie dolls	\$110 million recall cost including communication campaigns; and stock price down 18%
2007	RC2 Corporation	Lead (Pb) paint discovered on its Thomas % Friends toy trains	\$47.6 million legal fees; and stock price down 50%
2007	Palm	Treo 650 failing to meet RoHS	Stock price down 14%
2010	McDonald's	Cadmium (Cd) in Paint in Shrek-themed Happy Meal glasses (13.4 million)	\$3 refund for each glasses, around 40 million in US and Canada

Business Needs in Mitigating Chemical Risk

BACKGROUND

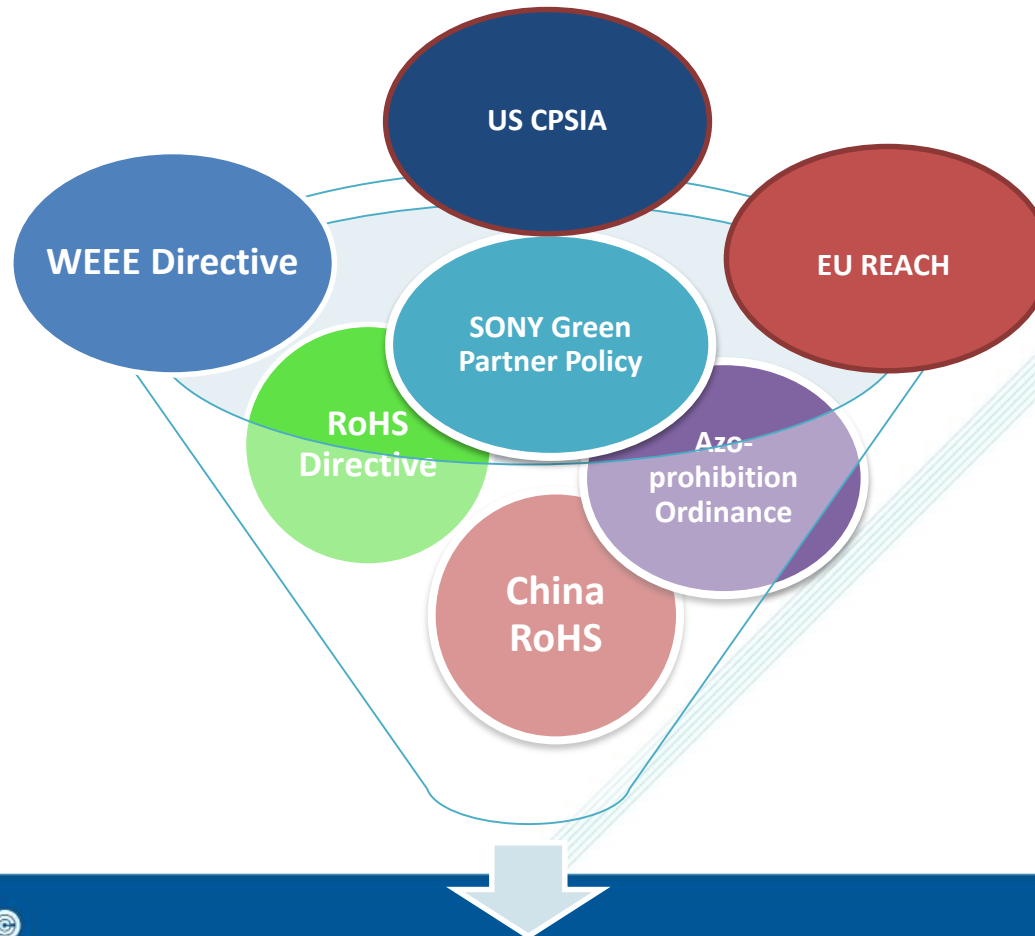
COST OF PRODUCT RECALLS



Business Needs in Mitigating Chemical Risk

BACKGROUND

CUSTOMER REQUIREMENTS AND LEGAL COMPLIANCE



SOLUTIONS – OLD VS NEW



Traditional Solution

- Conduct Separate Tests for Individual Buyers and Compliance
- Extra Compliance Cost due to Extra Testing



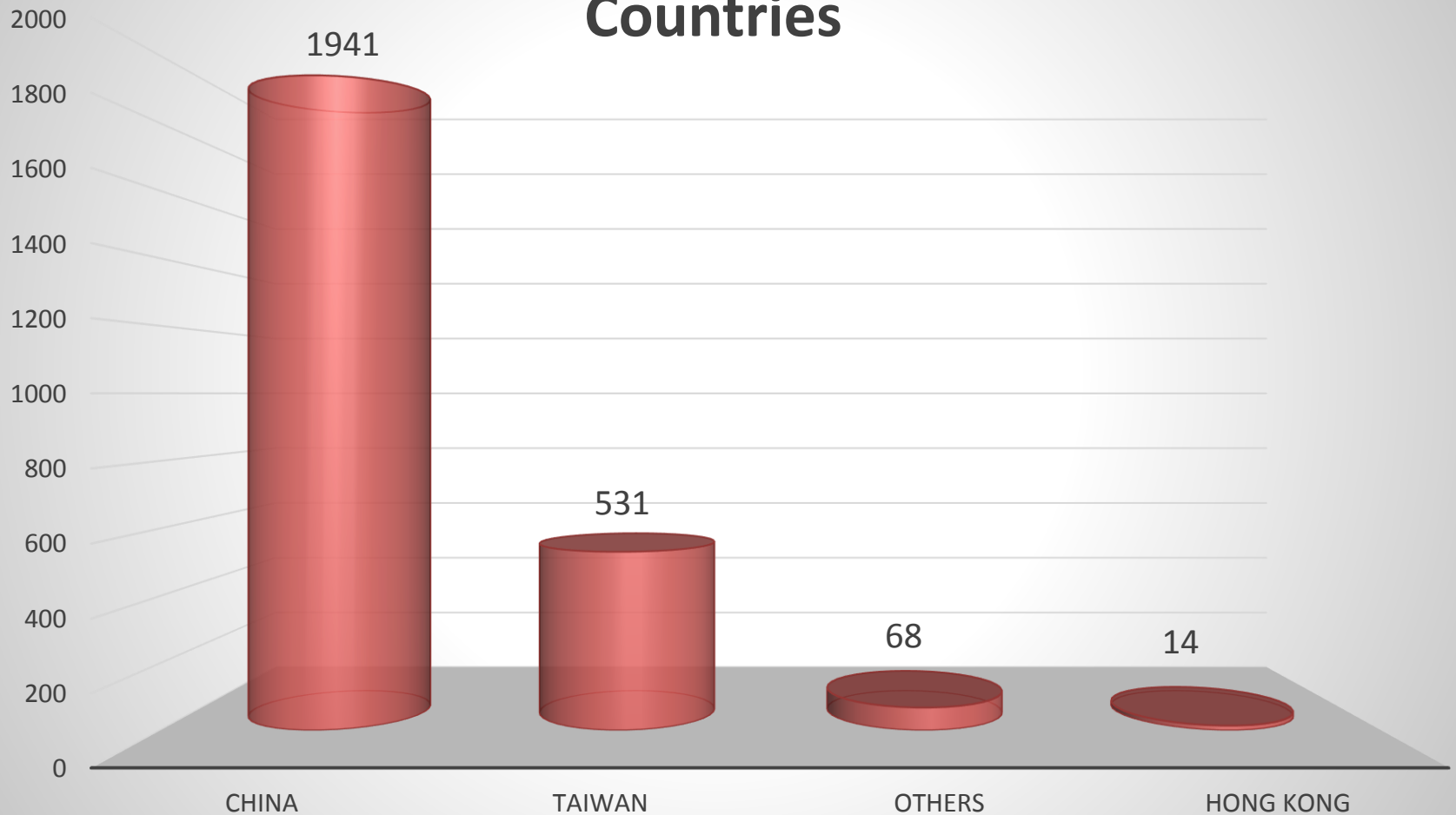
Systematic Solution

- Integration with ISO 9001 Standard
- One System to Fulfill Requirements of Multiples Buyers



- Established by IEC/IECQ
- ~ 2,600 companies certified worldwide
- Intended for uses by :
 - **manufacturers, suppliers, repairers, maintainers** of products
 - **End-users** and **customers**
- A **process approach** instead of **individual product approach**

No. of IECQ HSPM Companies in Different Countries



BENEFITS

- Efficient **use of resources** and **costs savings**
- Reduce actual / potential **risk**
- Earn **trust** with stakeholders
- Achieve **competitive advantage**
- Demonstrate the **compliance** with legal requirements
- Improve **marketability**

CONCEPTS

- Through process management rather than individual testing, a company can achieve HSF (HS Free)
- Based on belief that achievement of HSF cannot be realized without effective process in place

OVERVIEW

1. Scope
2. Normative Reference
3. Terms and Definitions
4. Hazardous Substance Process Management System
5. Management Responsibility
6. Resource Management
7. Product Realization
8. Measurement, analysis and improvement

Relationship to
ISO 9001 and
ISO 14001

DEFINITIONS OF STANDARDS

- **Shall** – indicates a mandatory requirement
- **Should** – among several possibilities, one is recommended as particular suitable/preferred option
- **May** – permissible within the limits

KEY CONCEPTS

- HS – Hazardous Substances – any substances regulated by applicable legal or customer requirements as to prohibit, restrict, reduce its use or notify its existence
- It could be **RoHS substances** or **other chemicals required by customers**
- **HSF** – Hazardous Substance Free
-

THE STANDARDS SAYS:

Section 4.1 General requirements

Each organization **shall** include in its ISO 9001 mandated quality management system the procedures, documentation, and process management practices necessary to achieve HSF product and production processes.

Implementation of IECQ QC 080000

GENERAL REQUIREMENT

ISO 9001	ISO 14001	QC 080000
Quality Policy	Environmental Policy	HSF Policy
Customers' focus	Environmental Aspects	List of HS
Continual Improvement	Environmental Objectives and Targets	HSF Objectives
N/A	Materials/Equipment Purchasing	Measurement, analysis and improvement

THE STANDARDS SAYS:

Section 4.2 Documentation requirements

The quality management system documentation **shall** include:

- a.) HSF Policy and Objective with inclusion of a timeline for elimination of use of all HS
- b.) HSF process management plan
- c.) Documented procedures and records
- d.) A List of HS

EXAMPLE OF HSF OBJECTIVES

Company A sets the HSF objectives as follows:

1. All products must be RoHS compliant **by 01/05/2010**

Pb	Cd	Hg	Cr6+	PBB	PBDE
1000ppm	100ppm	1000ppm	1000ppm	1000ppm	1000ppm

2. Numbers of chemical contamination due to HS are less than **6** each year

3. Numbers of clients' complaint due to HS non-compliance is **ZERO**

4. More than **5 trainings** related to HS are organized each year

THE STANDARDS SAYS:

Section 5. Management responsibility

Top management **shall** provide evidence of its commitment to the development and implementation of practices consistent with achieving HSF products and production processes and the continuous improvement

- 5.1 Management Commitment
- 5.2 Customer Focus
- 5.3 HSF Policy
- 5.4 Planning
- 5.5 Responsibility, Authority and Communication
- 5.6 Management Review

POINTS TO NOTE

- How HSF Policy is communicated? Through notice, meeting, or training?
- How management determines their HSF requirements? Through questionnaire, survey or legal regulations?
- How HSF related responsibilities and authorities are defined and communicated? Who responsible for what?

EXAMPLES OF MANAGEMENT RESPONSIBILITIES

Department	Function(s)
General Manager	Set up overall HSF plan
HR Department	Identify the needs of HS training
Engineering Department	Identify the opportunity to improve product design
QC Department	Testing HS content of products
Procurement Department	Buying RoHS compliant materials
Production Department	Implement the HSF Plan
Sales Department	Understand clients' HSF needs

DOCUMENTS THAT AUDITORS MAY LOOK FOR:

- Contract Review Statistics Relative to HSF Compliance
- Correction Action Report
- Legal Documentations related to HS
- Supply Chain Compliance Report
- HSF Research and Design Activity Report
- Customer HSF Satisfaction Report

INFORMATION OF LEGAL REQUIREMENTS

- European Environmental Bureau – Chemicals
<http://www.eeb.org/index.cfm/activities/industry-health/chemicals/>
- 國家環保總局網站
<http://www.zhb.gov.cn/>
- 國家標委會網站
<http://www.sac.gov.cn/>

THE STANDARDS SAYS:

Section 6. Resource Management

The organization **shall** determine and provide the resources needed to implement and maintain HSF processes and products, to continually improve its effectiveness, and to enhance customer satisfaction by meeting customer requirements.

- 6.1 Provision of resources
- 6.2 Human resources
- 6.3 Infrastructure
- 6.4 Work environment (new in 2012 version)

HUMAN RESOURCES

Similar to ISO 9001 and ISO 14001, companies need to address the following:

- How are employees trained?
- Are there training procedures?
- How will the training be documented?
- How will the effectiveness of training be measured and communicated?

INFRASTRUCTURE AND WORK ENVIRONMENT

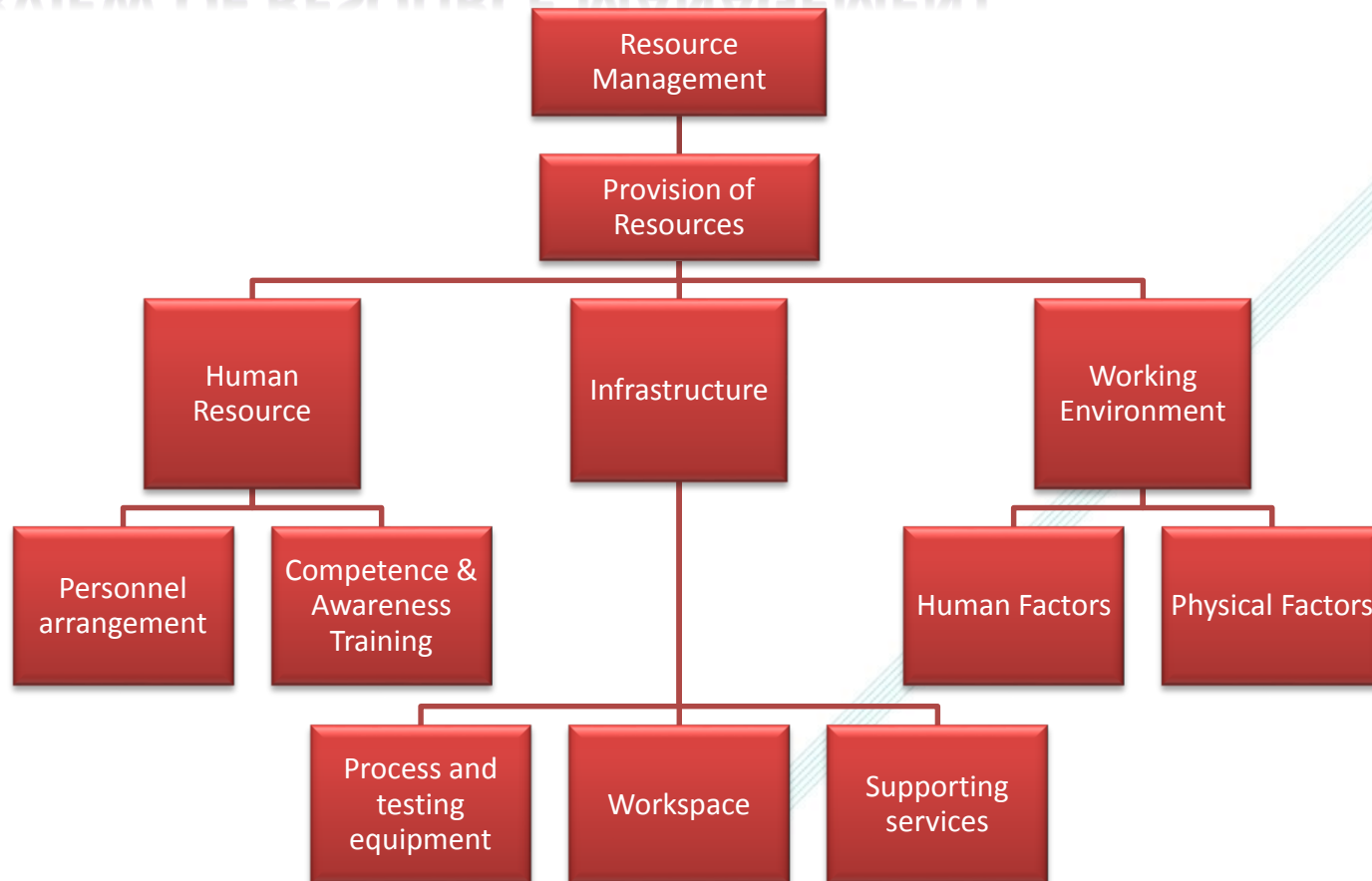
6.3 Infrastructure shall be maintained to achieve conformity to HSF process

Infrastructure include:

- Buildings, workspace and associated utilities,
- Process equipment and testing equipment
- Supporting services (testing, data computing, etc.)

6.4 Work environment shall also be maintained to achieve HSF

OVERVIEW OF RESOURCE MANAGEMENT



THE STANDARDS SAYS:

Section 7 Product Realization

The organization **shall** plan and develop the processes needed for HSF product realization.

- 7.1 Planning of HSF process and product realization
- 7.2 Customer-related process
- 7.3 Design and development
- 7.4 Purchasing of HSF products
- 7.5 Production and service provision

VENDORS EVALUATION

Through vendor evaluation, classify suppliers into 3 types:

Type A – incoming materials have **critical** impacts to the HS content of products

Type B – incoming materials have **important** impacts to the HS content of products

Type C – incoming materials have **minor** impacts to the HS content of products

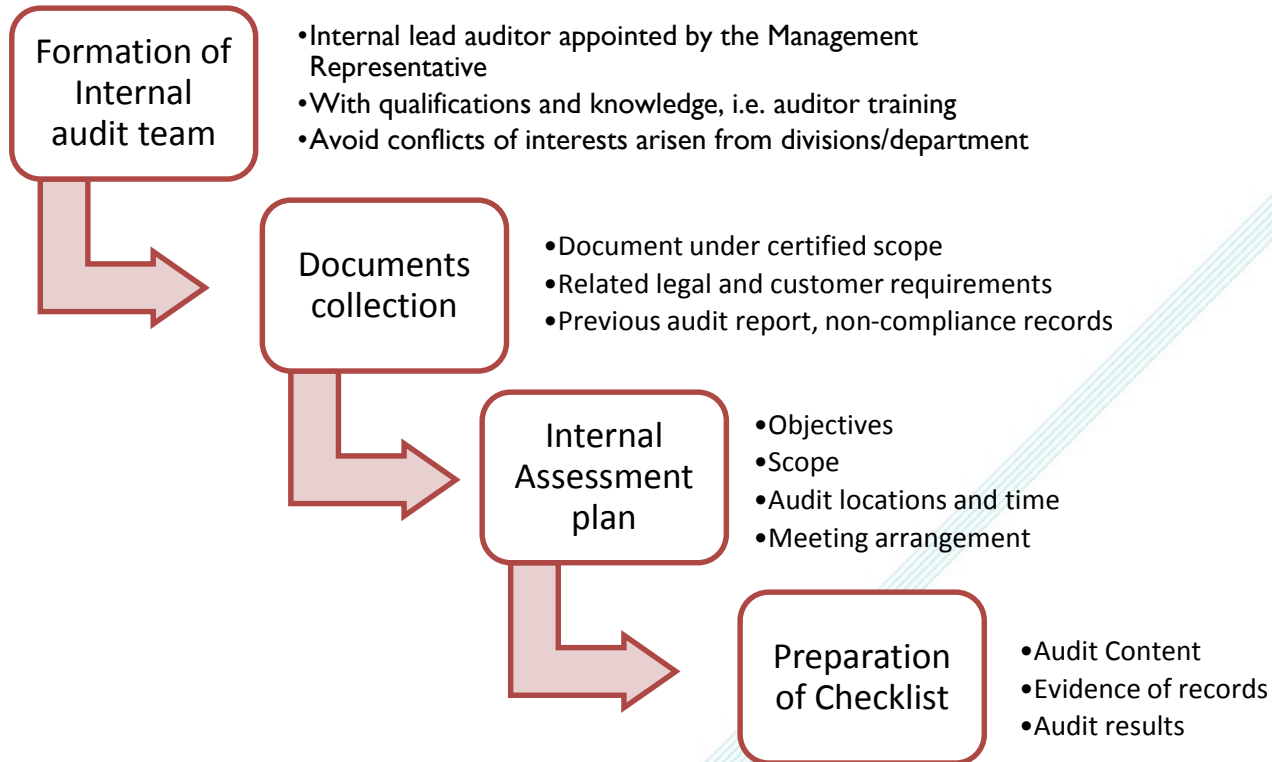
THE STANDARDS SAYS:

Section 8 Measurement, analysis and improvement

The organization **shall** plan and implement the monitoring, measurement, analysis and improvement processes

- 8.1 General
- 8.2 Monitoring and measurement
- 8.3 Control of HSF nonconforming product
- 8.4 Analysis of HSF data
- 8.5 Improvement of hazardous substance process management system

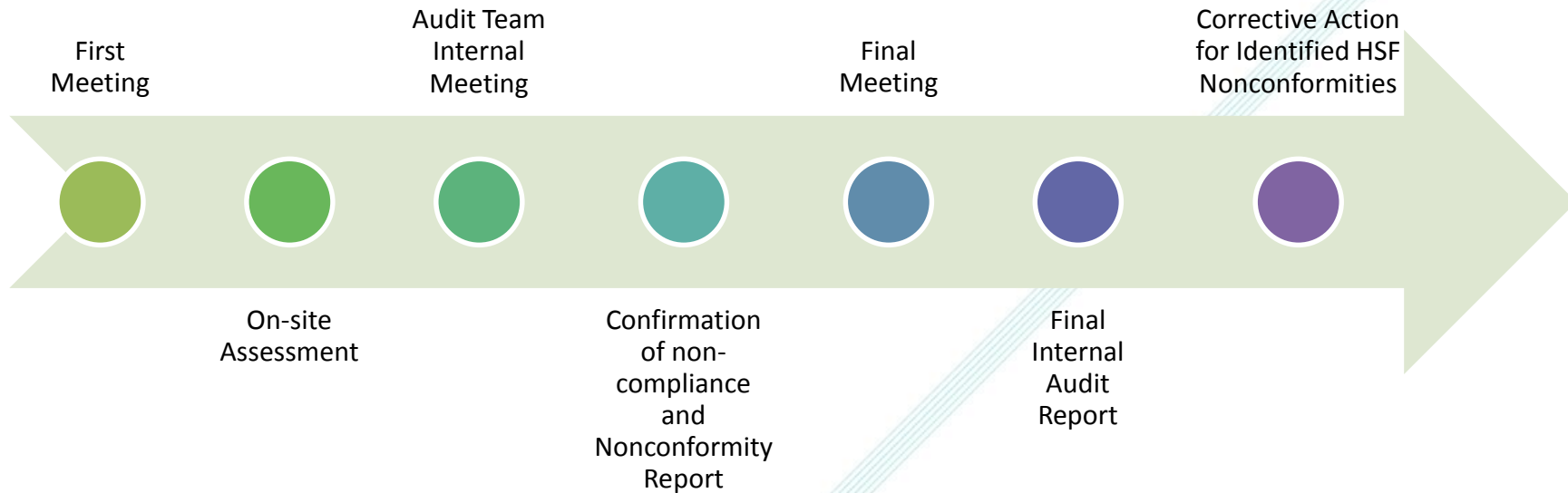
PREPARATION OF INTERNAL AUDITS



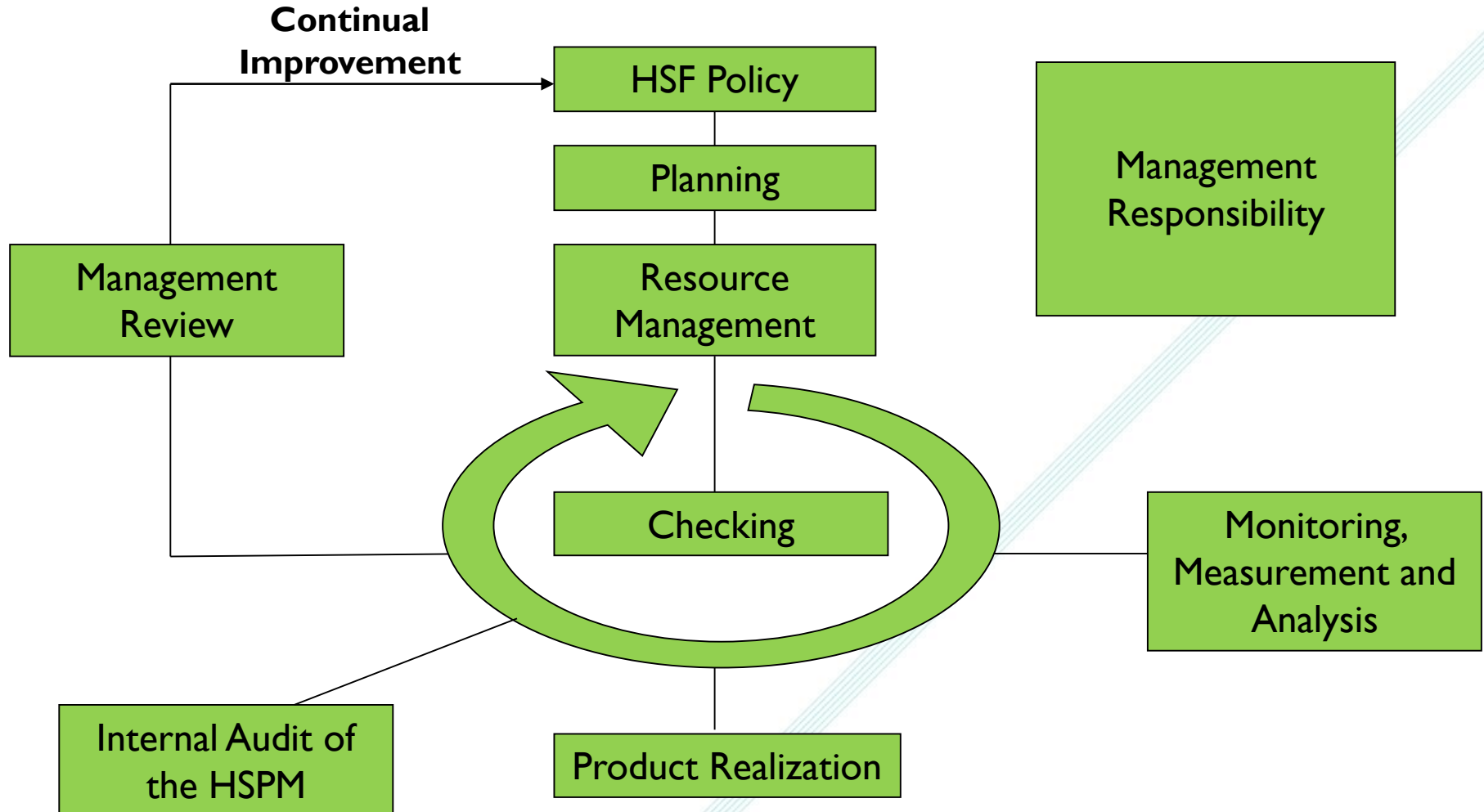
Implementation of IECQ QC 080000

MEASUREMENT, ANALYSIS AND IMPROVEMENT

INTERNAL AUDITS



OVERVIEW



A Support Programme for Assisting Hong Kong SMEs To Effectively Achieve Hazardous Substances Compliance through Adoption of IECQ QC 080000 Hazardous Substances Process Management System

Funded by



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IECQ QC 080000, Chemical Risks and Product Recall Workshop (2) Part II

Perry Chan
Hong Kong Productivity Council
08 May 2015

SME Support Programme to Adopt IECQ QC 080000 HSPM

BACKGROUND

INDUSTRY CONSULTATION VISITS

主辦機構
 香港工業總會
FHKI

執行機構
 HKPC

「中小企業發展支援基金」
撥款資助
 工業貿易署
Trade and Industry Department

項目支持機構
 綠十字

活動支持機構
 綠十字

IECQ QC080000 有害物質控制管理系統 — 工業諮詢探訪 —

成功參加機構將可獲免費推廣機會

費用全免，
額滿即止！

香港工業總會聯同香港生產力促進局已成功獲得香港特別行政區政府工業貿易署「中小企業發展支援基金」的撥款，支持一項特別為中小企業而設的支援計劃，以協助企業採用IECQ QC080000有害物質控制管理系統。

其中一項主要的項目，是為現正執行IECQ QC080000有害物質控制管理系統的中小企業進行工業諮詢探訪，以了解各企業執行有害物質控制管理工作的情况，透過他們的成功經驗，鼓勵其他中小企業執行有害物質控制管理工作。

於進行工業諮詢探訪後，企業的成功經驗將會於網上及實用指南中刊登，以宣傳企業於有害物質管理上的成就，更有機會於研討會或講座中作出分享。

申請資格

1. 中小企業
根據香港特別行政區（「香港特區」）政府的中小企業定義，即從事製造業而在本港僱用少於100人的企業；或從事非製造業而在本港僱用少於50人的企業。
「此外而言，「僱用人數」包括經常參與企業業務的全職員工、兼職人員及家屬，以及企業的受薪員工。包括在這次本計劃申請時，由有關企業直接支付薪酬的全職或兼職服務員，其中包括高級經理職位。
2. 香港企業
在本港根據《商業登記條例》（第310章）註冊及有實質業務運作的企業；及
3. 已獲取有效的 IECQ QC 080000 認證

查詢

如對本項目有任何疑問，請聯絡
香港工業總會 李小姐 電話：+852 2732 3169，電郵：candice.li@fhki.org.hk 或
香港生產力促進局 陳先生 電話：+852 2788 6142，電郵：timchan@hkpc.org。

此項目由香港工業總會主辦，並由香港特別行政區政府工業貿易署「中小企業發展支援基金」撥款資助。

Initiative 2 – Industry Consultation Visits and e-Fact Sheets

Activities:



On-site visits to 10 pioneer companies



Production of 10 e-Fact sheets

Beneficiaries:

- **Pioneer companies** of IECQ QC 080000 implementation and hazardous hazardous substance management
- **e-Fact sheets will be uploaded to website** for widespread sharing

Initiative 3 – Online Practical Guide

Activity:



Production of an online step-by-step guide for effective QC 080000 implementation

Beneficiaries:

- **Key personnel** responsible for hazardous substance management for their management for their companies, **factory managers**, **compliance managers**, etc.

SME Support Programme to Adopt IECQ QC 080000 HSPM

E-FACT SHEETS & PRACTICAL GUIDE

ONLINE VERSION



香港綠色製造聯盟
HONG KONG GREEN MANUFACTURING ALLIANCE



PURSUE GREEN
MANUFACTURING
FOR HONG KONG INDUSTRIES
中文 English



Homepage

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- Events
- CPSIA
- NEW QC080000
- REACH
- RoHS Directive
- WEEE Directive
- Technology Corner
- Success Stories
- News Archive
- Links
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UPCOMING EVENTS

Training Workshop on Enhancing Capability of Hazardous Substances Process Management System (IECQ QC 080000) >> More
2015-05-08 FHKI Conference Room, 31/F, Billion Plaza, 8 Cheung Yue Street, Cheung Sha Wan
Language: Cantonese
Fee: Free
Seminar leaflet & reply slip

WELCOME TO HKGMA



It is my immense pleasure and honour to serve as the Chairman of Hong Kong Green Manufacturing Alliance (The Alliance) for the year 2013-2015. In addition, it is also my pleasure to be on behalf of the Hong Kong Mould and Product Technology Association to chair the Alliance for the ensuing term.

I would like to take this opportunity to thank for the support from the Honourary Chairman, Prof. K. B. Chan, the Immediate Past Chairman, Dr Sunny Chai, and the steering members, who have established a very solid foundation for the development of Alliance.

For the past few years, the Alliance has been providing a vibrant platform for Hong Kong industries to get a hold of the latest development of green manufacturing initiatives such as EU RoHS, WEEE, REACH, US CPSIA and hazardous substances management. Through organizing various kinds of activities, the Alliance has been keeping a good pace for enhancing industry awareness to implement green manufacturing practices as a means for sustainable growth.

The Alliance has a strong sense of promoting green manufacturing to Hong Kong industries. As the Chairman of the Alliance, in the coming years I will strive to work with members and bring in initiatives to cope with the intense industry challenges on compliance management and sustainable development.

Thank you.

Yan Zhao Jia, Robert
Chairman
Hong Kong Green Manufacturing Alliance

HKGMA NEWS

IECQ QC 080000 HSPM - Seminar on Enhancing Capability of Hazardous Substance Management (20 Mar 2015) >> More

 Presentation material: "IECQ HSPM Scheme & QC 080000: Current status" presented by WG 5 Convener CABC Vice-Chairman Mr Chris Yau

 Presentation material: "How to Manage Hazardous Substance Effectively in Electronics Industry" presented by WOOX Innovations

 Presentation material: "Chemicals in Products" presented by Hasbro Far East Ltd.

 Presentation material: "A Support Programme for Assisting Hong Kong SMEs To Effectively Achieve Hazardous Substances Compliance through Adoption of IECQ QC 080000" presented by Hong Kong Productivity Council

Training Workshop on IECQ QC 080000 Hazardous Substances Process Management System (22 Jan 2015) >> More

 Presentation material: "Chemical Management System" presented by Hasbro Far East Ltd.

 Presentation material: "IECQ QC 080000, Chemical Risks and Product Recall Workshop" presented by Hong Kong Productivity Council



REACH



TID SME
Development Fund Project
Environmental and
Green Manufacturing



One Factory
One Year
One Environmental Project
(One-Factory-One-Year)



綠色製造網絡
Green Manufacturing Network

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HKPCA

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GMN Hotline:
(852) 2788 6348

Events Express

e-News Subscription

What's new

- 17-4-2015 企業推行環保採購 引領綠色消費文化 (Chinese Version Only) [New](#)
- 17-4-2015 EU Amends Exemption Lists of ROHS 2 [New](#)
- 17-4-2015 USA: AAFA Published 15th Edition of Restricted Substances List [New](#)
- 27-3-2015 School Waste Reduction Campaign
- 27-3-2015 EU - REACH: Restriction of PAHs Extends to Consumer Products

Upcoming Events

- 12-6-2015 「2015香港環境卓越大獎」 - 經驗分享研討會 (Chinese Version Only) [New](#)
- 5-6-2015 「2015香港環境卓越大獎」 - 經驗分享研討會 (Chinese Version Only) [New](#)
- 29-5-2015 「2015香港環境卓越大獎」 - 經驗分享研討會 (Chinese Version Only) [New](#)

Past Events

- 能力工作坊 - 碳會計
及技巧培訓課程
(Chinese Version Only)
1-2-2015
- IECQ QC 080000 HSPM 有害
物質流程管理體系 - 培訓工作坊
(Chinese Version Only)
22-1-2015
- 提升管理體系能力工作坊 - 碳會計
及碳管理技巧培訓課程
(Chinese Version Only)
19-1-2015

Quick Links

GMN Advisors
綠色製造網絡顧問
Project MAX
利物網
Magazines Rack
校園減廢先鋒大行動

A Support Programme for SMEs to Adopt
the ISO 14001 (Env. Management System Standard)
及協助中小企業採用ISO 14001
認證管理體系輔導支援計劃
(Active 聯絡電話: 2773 8128 聯絡電郵: gma@hkpc.org.hk)

TID SME Development
Fund Project
"China RoHS" Compliance
Support Programme
星期五檔案
Friday Focus
香港綠色製造聯盟
Hong Kong Green Manufacturing Alliance

HKPCA®

- 香港綠色製造聯盟網站: www.gma.org.hk
- 香港生產力促進局綠色製造網絡網站: www.gmn.hkpc.org

BACKGROUND

Established in

1982

Headquarter

Hong Kong

Main Factories

Guangdong, Heshan and Shanghai

Business

Prints books, games, bags, gifts and packaging

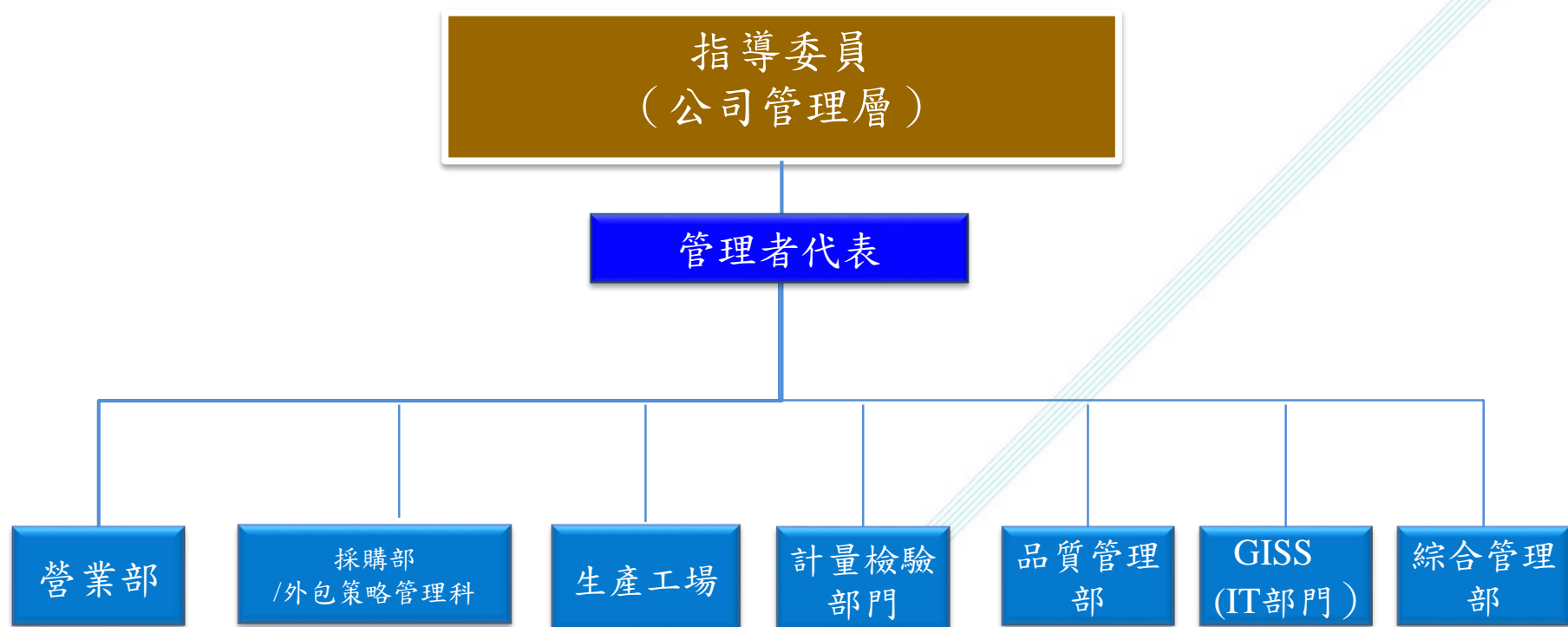
BACKGROUND

Heshan Astros Printing Ltd.

Certified Management Standards :

- ICTI (2005)
- ISO9001(1998)
- OHSAS 18001:2007 (2004)
- ISO14001(2003)
- ISO27001(2005)
- GSV(2008)
- BRC (2005)
- QC080000(2010)
- FSC(2007)
- QC080000(2013)

PRODUCT SAFETY COMMITTEE



(Chinese only)

HSF POLICY

Source
Control

Process
Protection

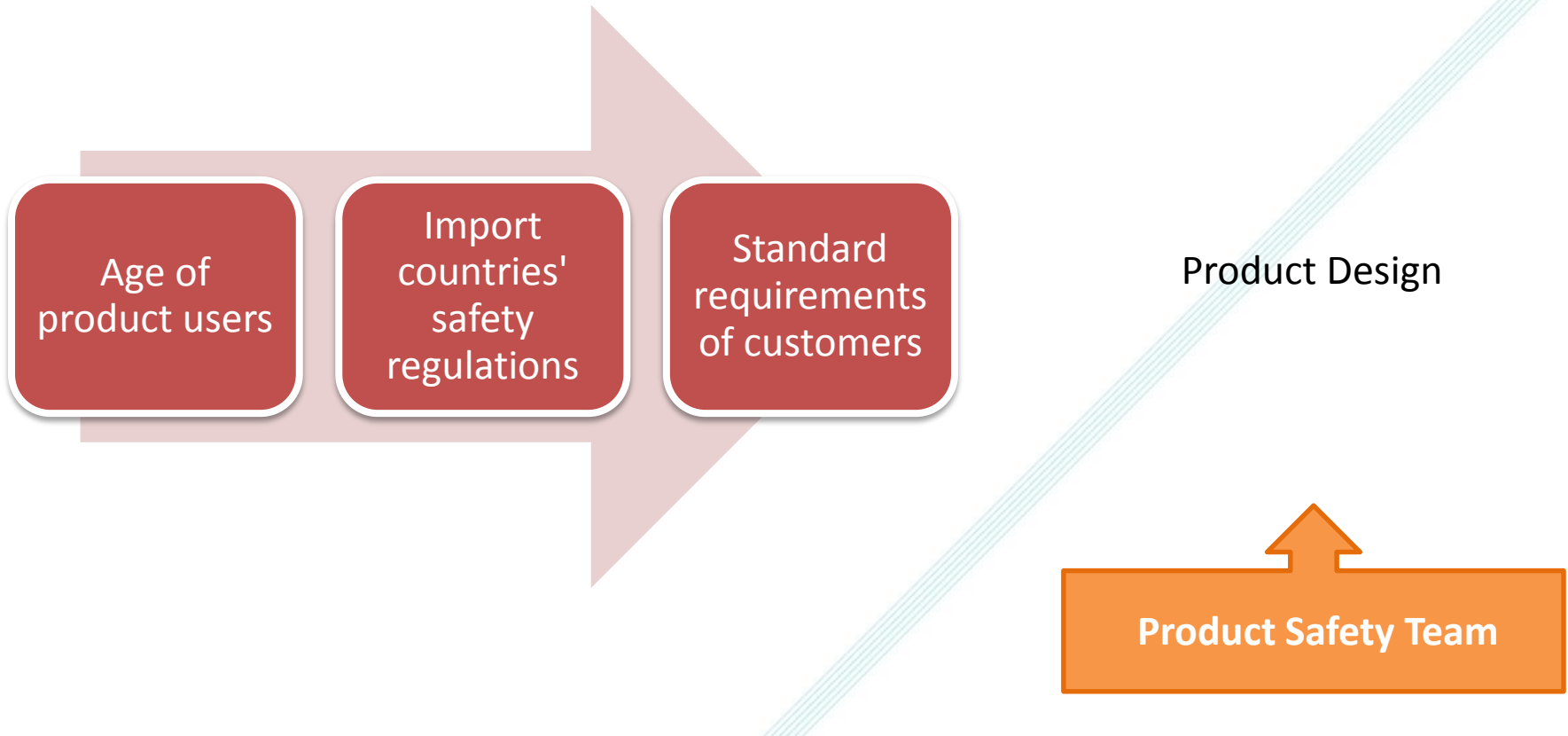
Green
Printing

HSF POLICY

- Provide products compliant with customers' requirements as well as product safety laws and regulations as a responsible manufacturer, to protect end users and the environment.
- Continuously improve our product safety performance across the organization and along the entire supply chain to achieve quality reliability and excellence.
- Develop Hazardous Substance Process Management System to ensure products comply with the legal and customers' safety requirements.

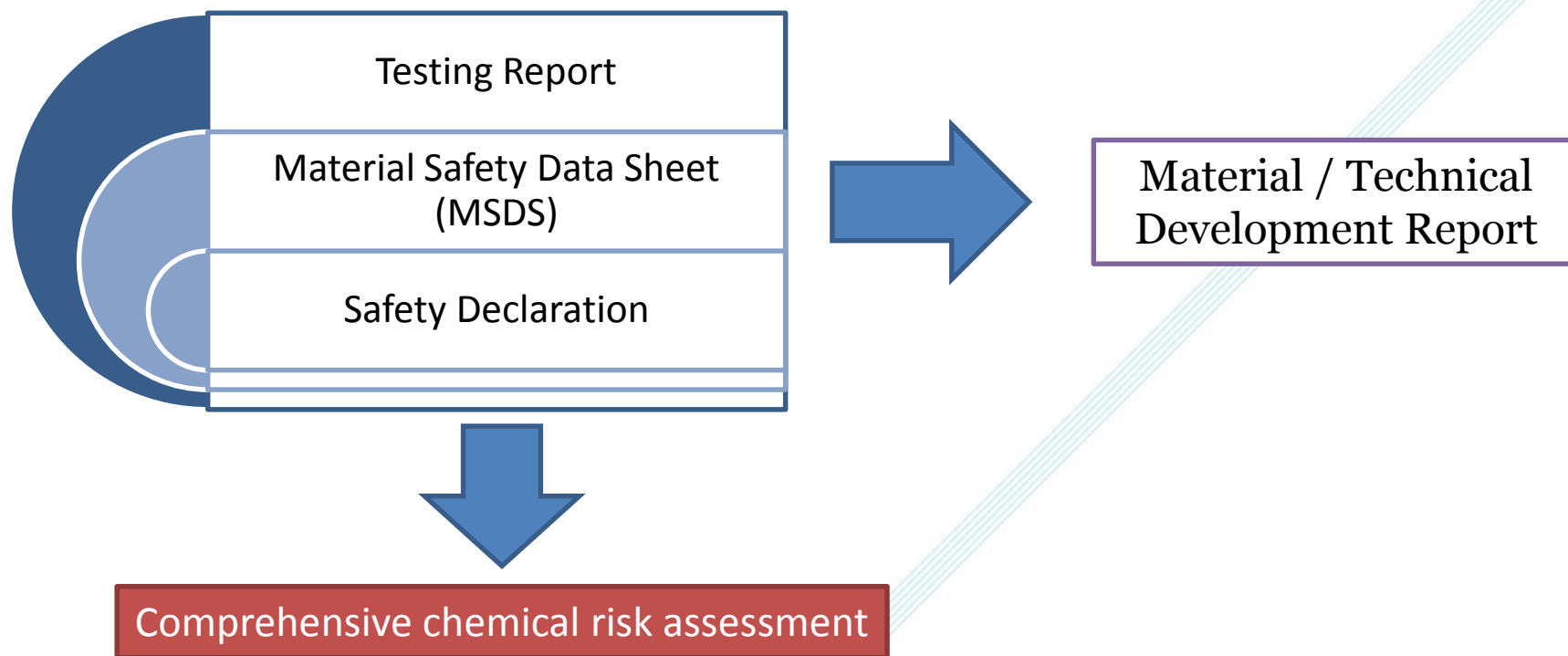
CONTROL POINT (1)

Collect Product Requirements and Safety Information



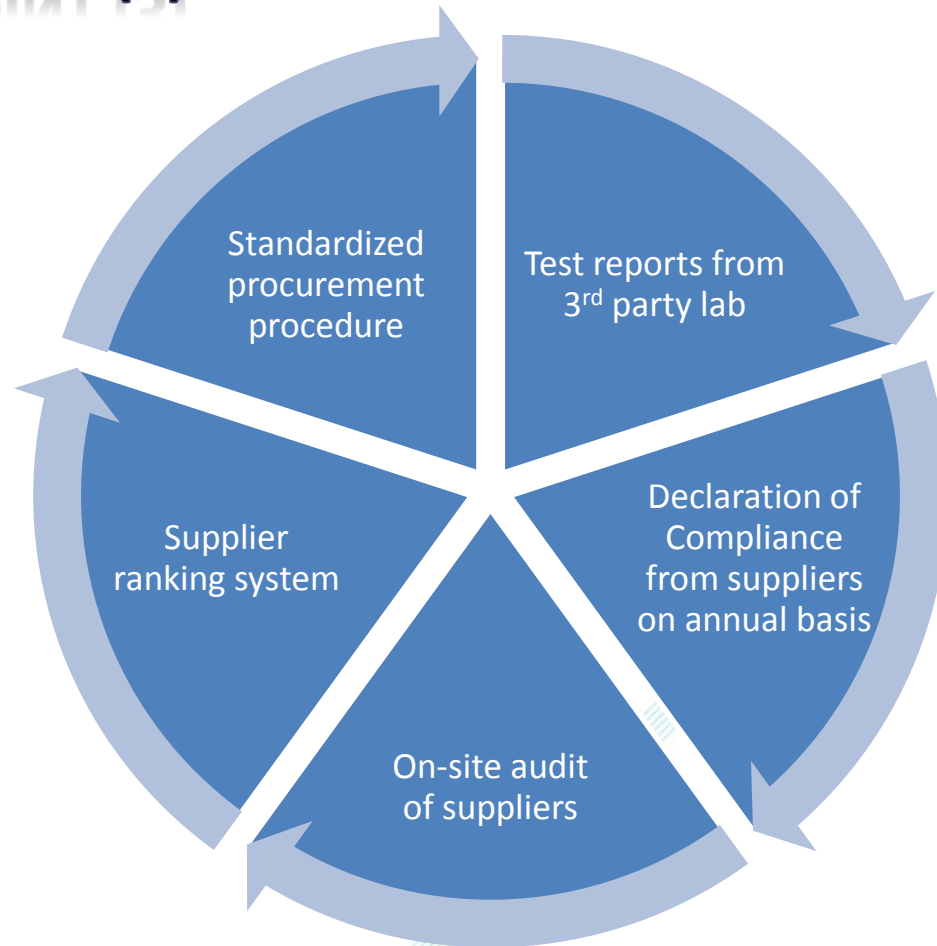
CONTROL POINT (2)

Material Development and Testing



CONTROL POINT (3)

Procurement



CONTROL POINT (4)

In-house Production Control

- HSF Labelling
- Material Labelling
- Clear procedures on stocking

Prevent misuse
of hazardous
substances

- Material Tracking Systems
- Pollution prevention procedures
- Regular infrastructures and cleaning and maintenance

Prevent cross
contamination

CONTROL POINT (5)

Continual Improvement

- Regularly **assess** the system, and report the assessment results to ensure the compliance of its manufacturing process with safety and environmental requirements.
- Regularly **trains** all of its employees and its suppliers in existing and new product safety requirements of major import countries such as EU and the U.S. Training sessions also organized to update trainees on upgraded versions of the HSPM

BENEFITS OF IECQ QC 080000 HSPM

- Understand how to **control** the hazardous substance during the manufacturing process
- Lower the **risk** of incidents and **product recall**
- Increase the Group's **competitiveness** by lowering testing costs
- Boost customer **satisfaction** and **loyalty**
- Demonstrate their **commitment** on achieving HSF to stakeholders

BACKGROUND

- Hasbro Far East Ltd.
- Headquartered in U.S.
- Toy manufacturer
(e.g. Transformers, Monopoly, Play-Doh, etc.)
- Manages its Asia-Pacific marketing and product compliance through its Hong Kong business

MARKET DRIVERS

Regulators

(Federal, State and Global)

- Evolving chemical requirements with more focus on formulations/substances.
- State Level activity increasing.
- Global requirements increasing

Media/NGO Activity

- Center for Environmental Health Reports/Studies
- Safe Kids Worldwide
- Kids In Danger
- Greenpeace

Retailer Requirements

- Market requirements
- Brand requirements
- Entering new emerging markets (i.e. growth potential)

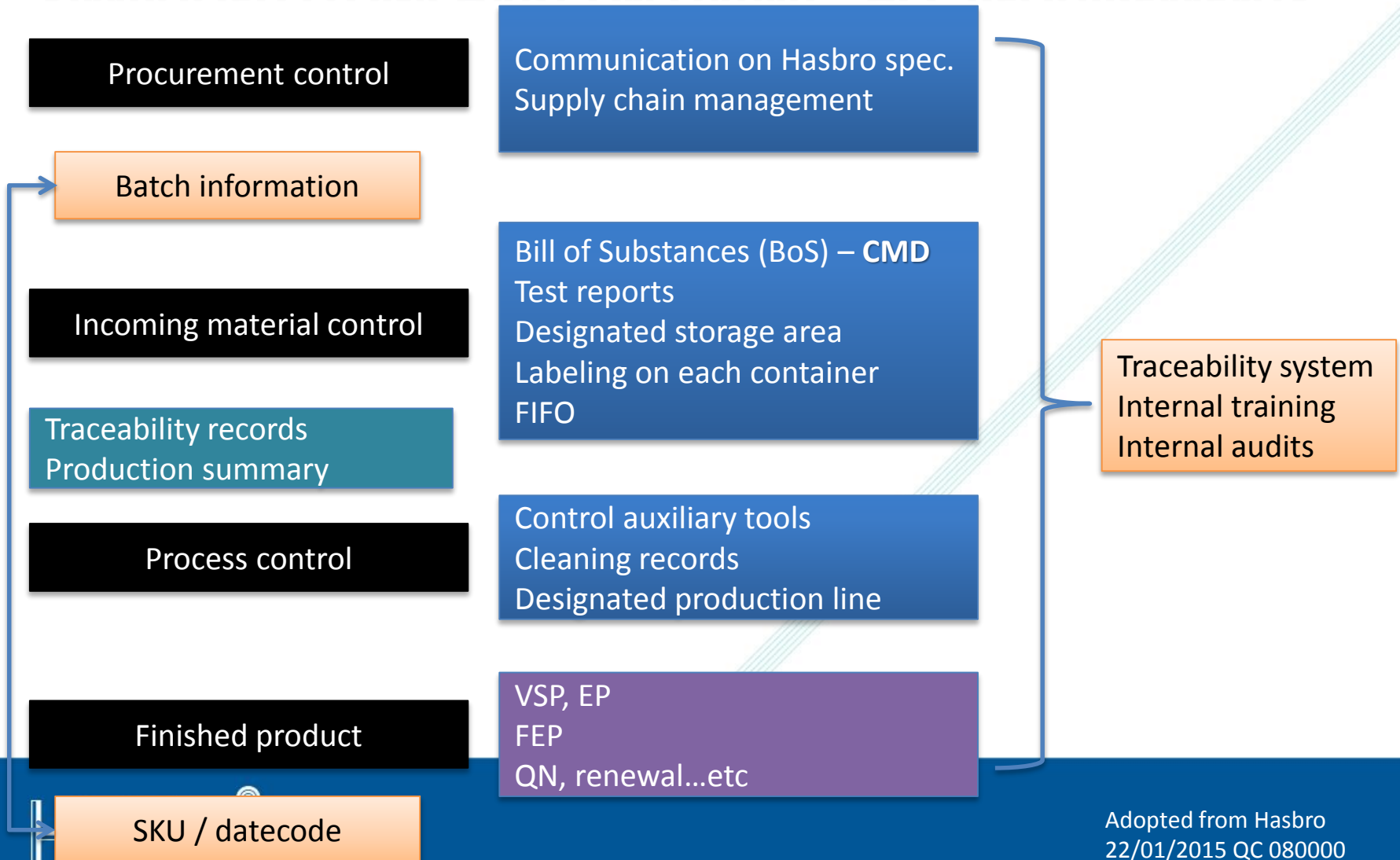
Consumer Demand

- Demanding more “green” products
- Environmentally conscientious

PRODUCT AND MATERIAL SAFETY EFFORTS

- Hasbro's QA049 Hazardous Chemical Control Requirements
- Centralized Database for Chemical Management (CMD)
- Enhancing Suppliers' Performance
- Regular Evaluation

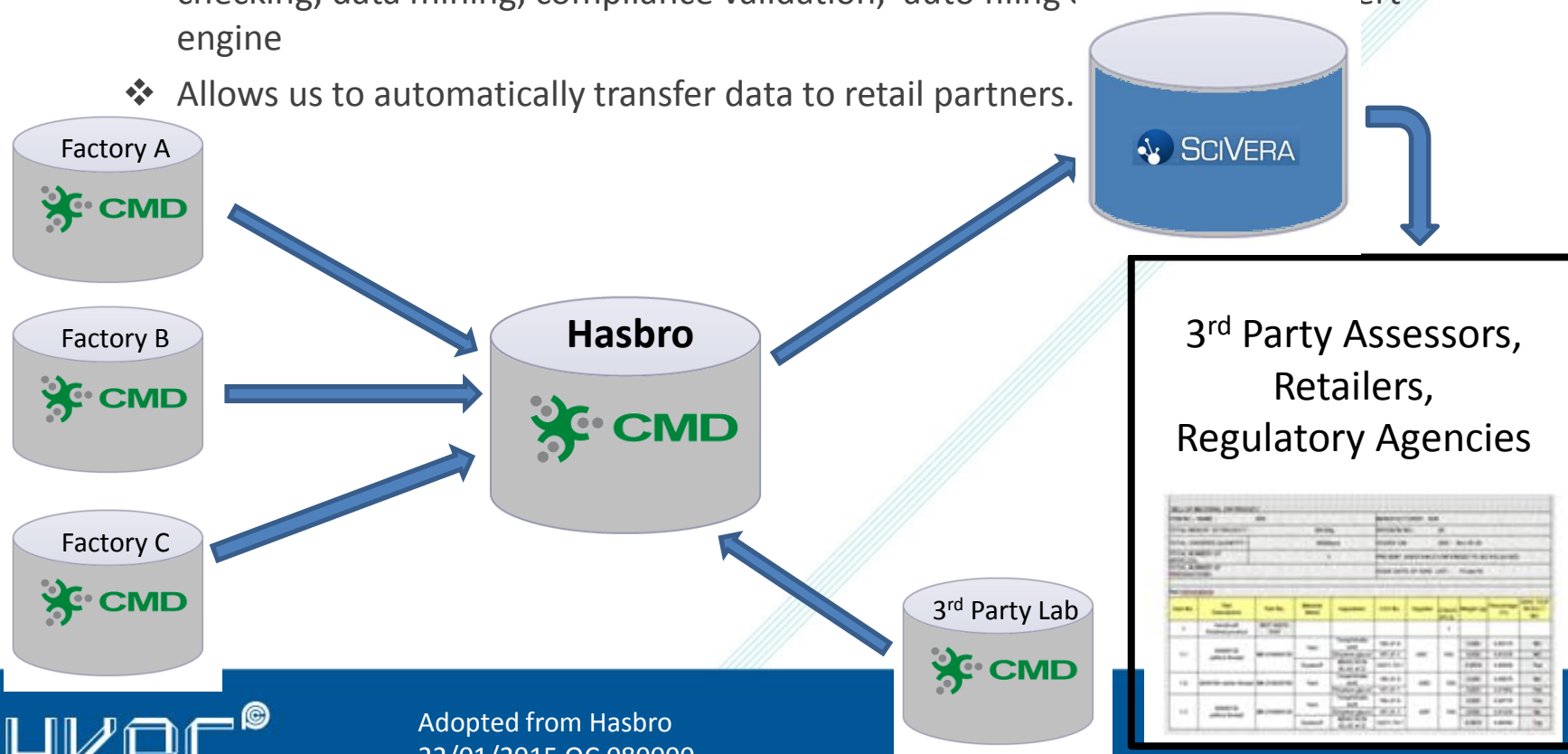
SIMPLIFIED FLOWCHART ON QA049 – HCC REQUIREMENTS



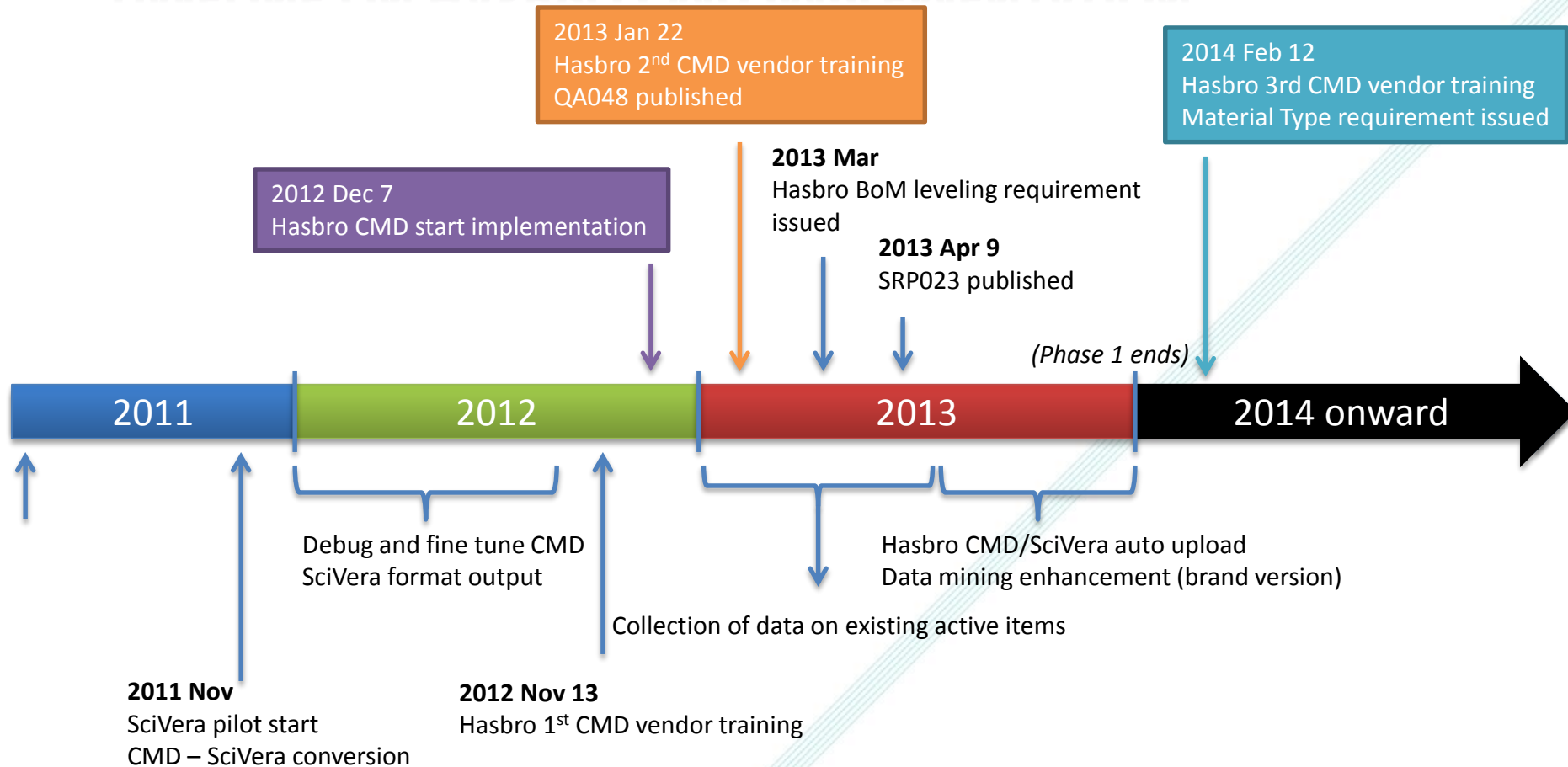
HASBRO CMD WORKFLOW

Chemical Information Management

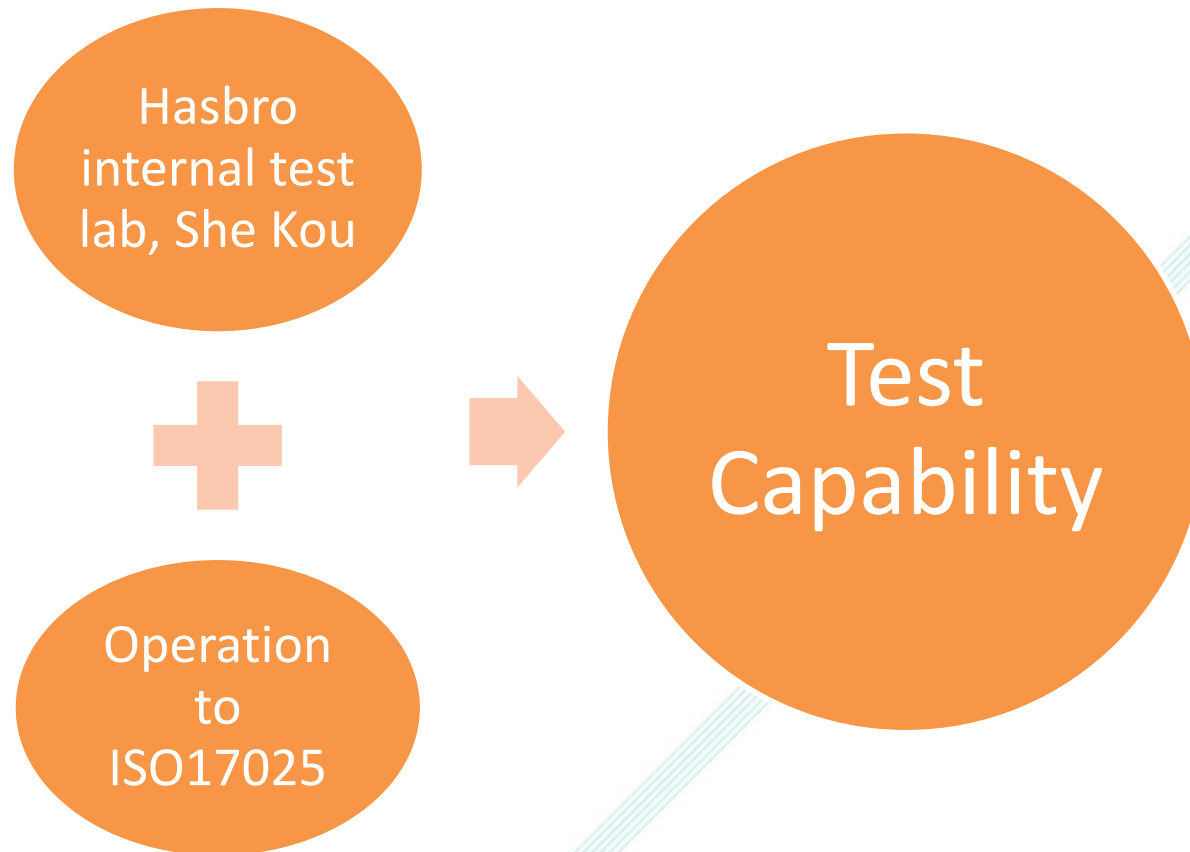
- Developed by Hong Kong Toys Council, software company and Toy Brands
 - ❖ Minimizes redundancy of multiple data entry at various location, real time status checking, data mining, compliance validation, auto filing capability, email alert engine
 - ❖ Allows us to automatically transfer data to retail partners.



TIMELINE ON HASBRO CMD IMPLEMENTATION



REGULAR EVALUATION



THE BENEFITS



- Provides a robust framework to help organizations effectively manage hazardous substances in their components and products;
- Solid foundation to address hazardous substance regulations and buyers' requirements, therefore gaining a more competitive position in the global market.



Since 1963

IECQ QC 080000 **HSPM**有害物質過程管理 體系認證和實施經驗分享

福田科技有限公司
2015年5月8日

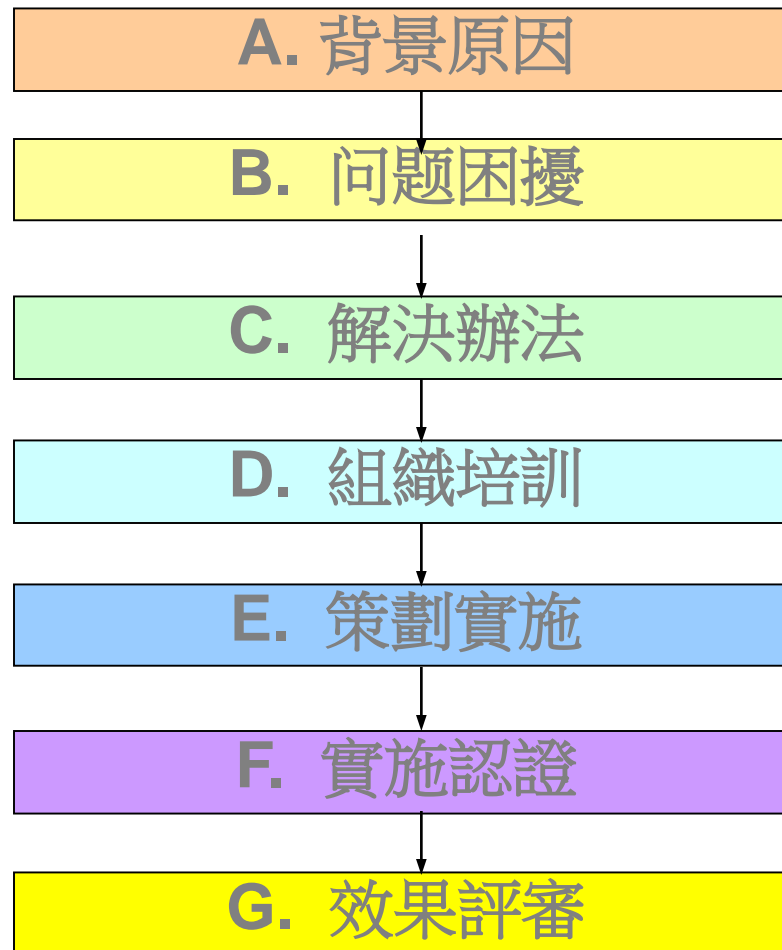
综合(IMS)管理体系

- ISO 9001质量管理体系
Quality Management System
- ISO 14001环境管理体系
Environmental Management System
- OHSAS 18001職安健管理体系
Occupational Health and Safety System
- ISO 13485医疗器械质量管理体系
Medical Devices – Quality Management System
- IECQ QC080000 HSPM有害物質過程管理体系
Hazardous Substances Process Management system



- 家用磅：人體脂肪磅, 人體浴室磅, 厨房秤
- 專業磅：郵政磅, 计价磅, 医疗磅
- 传感器：用於商業, 工業稱重设备





A. 背景原因 (2005年 ~)

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1. Entry Barrier 門檻:

European Directive 2002/95/EC “RoHS”

European Directive 2002/96/EC “WEEE”

2. 歐洲進口商需求:

電子產品每批出貨前, 生產商需提供該產品符合
“RoHS” 的檢測報告

Remark:

The latest regulation now for RoHS is
European Directive 2011/65/EU

B. 問題困擾

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1. 生產商:

- 零部件進料 **RoHS** 符合性, 不能確定
- 製造過程交叉感染**HS**有害物質風險, 未能消除
- 欠缺可行的有害物質過程管理體系及管控工具

2. 進口商:

- 生產商簽署**RoHS**符合書可信賴程度, 進口商/顧客存疑
- 為減少風險, 進口商要求生產商提供產品檢測符合報告

3. 檢測費:

- 每款每批產品檢測費用龐大, 進口商或生產商都不願負擔

1. 參照**IECQ QC 080000 HSPM** - 實現**HSF**運行框架的要求,
 - 1.1 建立綜合(**IECQ & ISO**)管理體系, 目標和作用:
 - 1.2 為企業管理有害物質提供有效系統
 - 1.3 確保零部件進料符合 **RoHS**要求
 - 1.4 消除製造過程交叉感染的風險
 - 1.5 確保製成品符合相關法規標準
 - 1.6 給顧客和其他相關方提供信心
 - 1.7 減少來自顧客的無止境審核
 - 1.8 減少產品檢測需求, 降低成本
2. 設置監控工具 (建立 **IT database** 監察化學物質管理; 購置檢測儀器)

D. 組織培訓

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RoHS



Supplier Workshop: 2005

SGS

Test Report

No. 2024443/EC

Date : Jun 24 2005

Page 1 of 13

Applicant / Address

Fook Tin Technologies Limited
4/F., Eastern Ctr., 1065 King's Road., Quarry Bay
Hong Kong

Production information

The submitted product is said to be

Bathroom Scale
(Accessories: Battery)
Model: TFX655

is with reference to the standards

EPA3050B/EPA3051
BS EN1122 METHOD B
EPA 3052
EPA 3060 A & EPA 7196 A
GC/MS or LC/MS
SGS In-house method – Acid Digestion

Conclusion

When tested as specified, the Lead, Cadmium, Mercury, Hexavalent Chromium, Polybrominated Biphenyls(PBBs) and Polybrominated diphenylethers(PBDEs) Contents in the submitted samples comply with the requirement of RoHS Directive Consultation document on 2002/95/EC

THIS DOC IS ONLY VALID IN CONNECTION WITH TEST REPORT NUMBER 2024443EC which is issued on: 10/08/2005

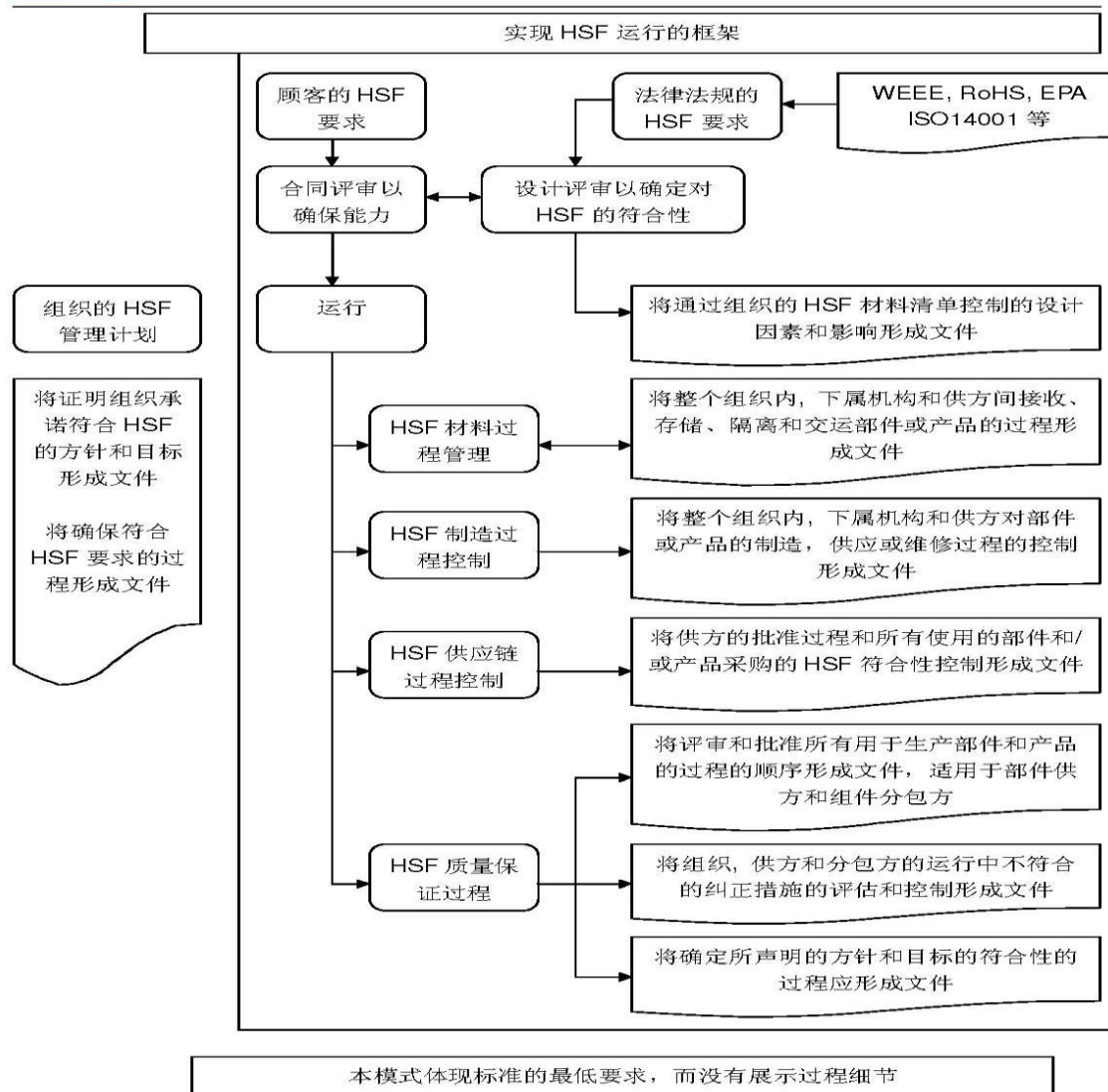
Wan Chi Wai, Leo
Technical Manager
Chemical Laboratory – E&E

D. 組織培訓

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QC080000



1. 策導文件建立(綜合管理體系):

- 1.1 法規和客戶要求識別,傳遞;與客戶資訊溝通; 內控標準的制訂與溝通
- 1.2 資料收集, 驗證與有害物質識別和評估
- 1.3 物料確認及產品設計
- 1.4 供應鏈管理和物料採購
- 1.5 物料檢驗
- 1.6 標識和可追溯性管理
- 1.7 倉儲管理
- 1.8 製造過程管理 (設備確認、風險工藝識別與控制)
- 1.9 產品檢驗
- 1.10 變更管理
- 1.11 資源提供
- 1.12 人力資源
- 1.13 文檔與記錄控制
- 1.14 應急管理/不合格品控制

2. 建立IT database: 分析,管控物料的化學物質



3. 購置檢測儀器: 抽樣檢測供應商來料

RoHS: 分析儀 XLT 797



E. 策劃實施

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4. 過程改進:

Producer
生產者

Suppliers
供應商

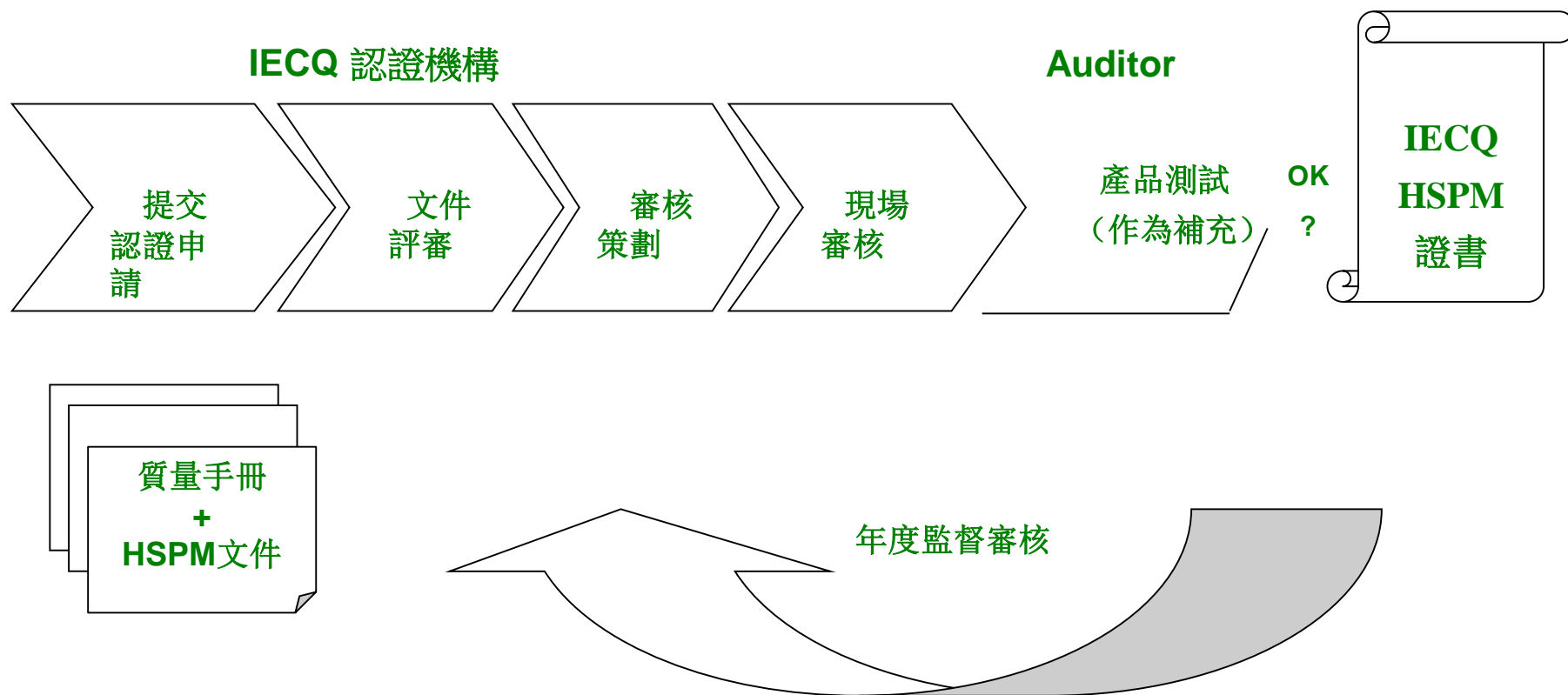
Lab / Consultants
實驗 / 顧問

團隊 Teamwork	組織責任團隊	✓		
	建立溝通渠道	✓	✓	✓
實施 Implementation	物料單研究	✓		✓
	物料解決方案	✓	✓	
	技術文檔管理 生產過程改進	✓	✓	✓
	建立系統 增置工具	✓		✓
	教育培訓 實施審核	✓	✓	✓
	IECQ 認證	✓	✓	✓
評審 Review	持續改進	✓	✓	✓

F. 實施認證

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IECQ 認證:



F. 實施認證

Your Reliable OEM/ODM Partner . . .

**IECQ QC 080000 HSPM 有害物質
過程管理體系认证: RoHS & WEEE**

2006年1月26日

**香港福田科技和深圳查氏電子成為
全球第一家通過相關標準認證的企業**



Fook Tin is the 1st Company in the world to receive IECQ Green Process Supplier and Manufacturing Certification and the European Directive 2002/95/EC “RoHS” and 2002/96/EC “WEEE” requirements. The certified that Fook Tin had developed and implemented Hazardous Substances Process Management, procedures and related processes in compliance with the applicable requirements for HSPM organization approval.

得益: RoHS

管理效果	建立后	得益
物料通过检测符合RoHS项数	XXX	确保有符合RoHS物料供採用
物料被剔除项数	XX	不再購買不符合RoHS的物料
RoHS物料被纳入监测监管的供應商	XX	确保可持續監管供應商的物料符合性RoHS
有害物質被识别及管控项数	XX	有關項數可受管控, 监测及定期检讨
新采购的物料件	新进物料100%符合RoHS	在产品和新設計的產品100%符合RoHS
受益:	<ul style="list-style-type: none"> • 确保了原有市场的占有率, 標竿同業取競爭優勢 • 新增了客户 • 降低了成本 • 管控有害物質, 使生產者和消費者及社會共获益 	

得益: WEEE

管理效果	得益
产品设计符合 WEEE 指令	新设计全部符合 WEEE 的要求
产品设计 3R 比重	比重全达 70% 以上,最高达 98.5%
设计用料和制造成本	综合节省 5 ~ 15%
设计环保产品竞赛	TX655, TFX40 荣获金奖

環保成果經評審 獲肯定的獎項

榮獲香港商界環保協會環保產品金獎

Your Reliable OEM/ODM Partner . . .



**2005 Hong Kong Eco-Products
Award - Gold Award**
環保產品金獎



“The Green Manufacturer of the year ” of One Factory – One Year – One Environment Project Program 2006



2006年绿色工业奖-大奖
“一厂一年一环保计划”

榮獲香港工業獎

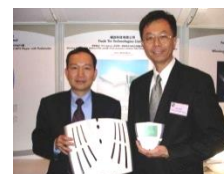
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2006 环保成就大奖



2003 生产力大奖



2006



2005



2004



2003



2003



2002

2000
1998

质量, 出口, 產品設計,
科技成就獎

荣获粤港清洁生产伙伴獎

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粤港清洁生产伙伴

Hong Kong - Guangdong
Cleaner Production Partner

2009年-2011年, 2011年-2013年




粤港清洁生产伙伴
Hong Kong - Guangdong
Cleaner Production Partner

粤港清洁生产伙伴 (制造业)
Hong Kong - Guangdong Cleaner Production Partner (Manufacturing)

兹证明
This is to certify that

公司名称 : 福田科技工业有限公司
Name of Enterprise : **Fukuda Ltd.**

厂房名称 : 查氏电子实业(深圳)有限公司
Name of Factory : **Cha's Electronic Industries (Shenzhen) Co. Ltd.**

符合成为「粤港清洁生产伙伴 (制造业)」的要求
並承诺致力落实清洁生产

*have fulfilled the requirement for
Hong Kong - Guangdong Cleaner Production Partner (Manufacturing)
and demonstrated a high commitment to cleaner production*


广东省经济和信息化委员会


邱腾华局长
Mr. Yau Tang Wah Edward, Secretary for the Environment


香港特别行政区政府 环境局
The Government of the Hong Kong Special
Administrative Region

证书编号 : A00008-MH09
Certificate Number : A00008-MH09

颁发日期 : 2009年11月25日
Date of Issue : 25 November 2009

有效期至 : 2011年11月24日
Valid until : 24 November 2011

深圳市鵬城減廢活動
“先進企業”
2010年



深圳市龍崗區
十大低炭經濟
“節能減排企業”
2010年



荣获深圳市清潔生產企業獎

Your Reliable OEM/ODM Partner . . .

深圳市科工貿信委、人居環境委 共同頒發深圳市清潔生產企業獎 2011年 – 2014年

证 书

证书号：深清1027号

经审核验收，查氏电子实业（深圳）有限公司
被评为深圳市清洁生产企业。（有效期：至2014年7月）
特发此证。

Certificate

Hereby Present The Certificate, CHA'S ELECTRONIC INDUSTRIES (SHENZHEN) COMPANY LIMITED

Was Audited And Accepted As Shenzhen Hygienic Manufacturing Garden.

深圳市科技工贸和信息化委员会 深圳市人居环境委员会
SHENZHEN SCIENCE & TECHNOLOGY, INDUSTRY, TRADE AND INFORMATION COMMITTEE HABITATION AND ENVIRONMENT COMMISSION OF SHENZHEN

二〇一一年七月

THANK YOU

