

## Seminar in Food Safety Seminar for Trade 2013

Application of Food Safety Programmes in Food Industries

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## About HKQAA

- A non-profit independent conformity assessment body, incorporated by Hong Kong Government in 1989 as a company limited by guarantee,
- Gazette as a public body in 1995,
- Provide certification, assessment, verification & training services,
- Develop local certification schemes for promoting best practices,
- Provide 9,000+ manday services & 20,000+ mystery shopping assessment in 2012,
- Provided thousand of assessment for international retailers & buyers,
- Issued over 4,000 system certificates,
- Permanent offices in Hong Kong, Guangzhou & Shanghai,
- Leading by a Governing Council, members come from Government, trade associations, academic sectors.

## PROMOTE THE APPLICATION OF INTERNATIONAL MANAGEMENT SYSTEMS



### HKQAA Sustainable Building Index (SBI) - A Territory-wide Benchmarking Initiative

樓宇可持續發展指數——全港性的樓宇評核指標

There are some 64,000 buildings in Hong Kong, and approximately 41,000 of these are private buildings, with the number of old buildings increasing all the time. These buildings have quite varied sustainability performance. Some buildings follow international environmental standards that take both practicality and sustainability into account. However, some might have been constructed merely with regard to practical use (for residential or commercial use) but not sustainability factors. They may also suffer from a lack of long-term planning about maintenance and renovation (such as installing LED lighting and security facilities). In Hong Kong, there have recently been several accidents related to issues like the maintenance, safety and quality of buildings, and these have raised awareness of the need for sustainable buildings.

The UNEP SBCI (United Nations Environment Programme, Sustainable Buildings & Climate Initiative) has found that buildings account for up to 40% of the energy use in society, with equivalent levels of greenhouse gas emissions, 30% of raw materials use and waste generation and 20% of water consumption. The building sector provides the context for our daily lives, social interactions and economic development. It involves a number of stakeholders, including residents, building managers, owners and industry professionals, and is therefore important for the sustainable development of the community. Inadequate building management can have a serious negative impact on the economy, society and environment.

In fact, Hong Kong people's awareness about sustainable development has been increasing due to world-wide publicity campaigns. However, not everyone knows how to make buildings sustainable by paying attention to their management, maintenance, safety and other factors.

#### A user-friendly and inexpensive assessment system

HKQAA launched its new initiative, the HKQAA Sustainable Building Index (HKQAA SBI) at the HKQAA Symposium held on 25 November 2011. The Index provides a user-friendly and inexpensive building assessment system designed with a balance of economic, social and environmental considerations, and applicable to buildings of all ages and types in Hong Kong. It encourages building stakeholders to contribute to the sustainable development of society by means such as improving maintenance management, upgrading energy efficiency and combating climate change.

目前，全港約有64,000座樓宇，約41,000座為私人樓宇，而舊樓的樓宇數目正在陸續增加中。這些樓宇的可持續發展表現差異甚大，有些在興建時會採納國際環保標準，實用性與可持續發展因素兼顧。然而，亦有一些樓宇在興建時，只考慮實際用途（如居住、商業用途），沒有顧及可持續發展的影響，亦欠缺進行維修、翻新或改建計劃（例如採用LED燈、改善保安設施等），而去年更有多宗與樓宇相關的意外和罪案，亦令公眾對樓宇的維修保養、安全及居住質素等問題，更關注。

聯合國環境規劃署可持續建築倡議指出，建築物佔整個社會中40%的能源消耗和溫室氣體排放量，30%的天然資源使用量和廢物產生，以及20%的耗水量，而樓宇亦為日常生活、社交活動和經濟發展的重要舞台，在社區中牽涉許多持份者，如居民、樓宇管理處、業權擁有者及業界專業人士等，對社區的可持續發展有重大影響，如果處理不當的話，更會對經濟、社會和環境三方面帶來巨大影響。

事實上，隨著全球對可持續發展的關注日增，香港人對可持續發展的概念已有所認識，甚至非專業人士亦了解如何維持樓宇的管理、保養及安全性等要素，令建築物能夠達到可持續發展的目標。

#### 簡單、成本低的評核方法

香港品質保證局最近訂定了「樓宇可持續發展指數」，並在2011年11月25日的「香港品質保證局專業研討會」上舉行啟動儀式。指數為全港不同種類和類型的建築物，提供一個平衡經濟、社會和環境三方面因素，簡單且成本低的樓宇評核方法，鼓勵樓宇持份者加強樓宇管理，提升能源效率和環境對氣候變化等，以貢獻於社會的可持續發展。

### HKQAA eNewsletter

12 Apr 2011



#### HKQAA obtained Hong Kong's First Accreditation for Clean Development Mechanism (CDM)

We are pleased to announce that in February 2011, the HKQAA was accredited as a Designated Operational Entity (DOE) by the Clean Development Mechanism (CDM) Executive Board under the United Nations Framework Convention on Climate Change. This makes the HKQAA the first Hong Kong organisation to be accredited to assist in verification services.

Feature 專題特寫

#### World's second biggest in the world

The topics of climate change and sustainable development have gained these concerns led to the introduction of CDM, a market-based mechanism (also Protocol). CDM came into force in 2005 and allows developed countries (those gas (GHG) emissions reduction projects in developing countries in a credit, known as Certified Emissions Reductions (CERs), each equivalent to one tonne of carbon dioxide (CO<sub>2</sub>). Today, CDM is the world's second-biggest GHG market in the UN's emissions-trading system.

Statistics from the UNFCCC, as of 15 February 2011, 2,823 CDM projects had been approved in 120 developing countries, with more than 548 million CERs issued to date. CER prices fluctuate and the price range from April 2009 to April 2010 was approximately 11 to 14 Euros per CER, as reported by the World Bank. CDM activities are related to energy. They range from the development of projects to energy saving and efficiency improvement.

project by far is an HFC-23 decomposition project in Changshu city, China, which is an estimated 10 million tonnes of emissions reductions per annum.

#### Services for Hong Kong industries

As the People's Republic of China is a signatory of the Kyoto Protocol, allowing CDM projects to be implemented in Hong Kong. After mainland authorities eased the 2009, Hong Kong companies meeting certain conditions are also allowed to generate CDM projects in China. This brings about very huge business opportunities for Hong Kong, since the mainland accounts for over half of the total CERs as of February 2011.

Five-year plan, starting in 2011, prioritises measures for bringing about a greener and energy efficiency, at the same time, Hong Kong and Guangdong will work together to promote CDM projects.

For accreditation, please refer to UNFCCC CDM website: <http://www.unfccc.org>

HKQAA is a member of the Quality Assurance Network (QAN) and is committed to providing quality assurance services to the Hong Kong and Guangdong regions.

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## COLLABORATION WITH HSBC TO PROMOTE THE APPLICATION OF ISO 26000

HKQAA-HSBC CSR Index - Windows Internet Explorer

http://www.hsbc.com.hk/1/2/cr/sustainability\_at\_hsbc/hkqaa

HKQAA-HSBC CSR Index

Hong Kong Home Personal HSBC Premier HSBC Advance Commercial Corporate MPF About HSBC Careers Contact us

**HSBC** The world's local bank Search:  GO

Home Footprint Management Business Development Risk Management Community Investment People and Diversity **Sustainability at HSBC** 中文

Corporate Sustainability at HSBC

Awards and rankings

Corporate Sustainability brochure and video


Resources

### HKQAA-HSBC CSR Index


HSBC, in cooperation with the Hong Kong Quality Assurance Agency (HKQAA), has launched the HKQAA-HSBC CSR Index - Hong Kong's first Corporate Social Responsibility (CSR) Index - to provide quantitative performance metrics to measure and improve corporate social responsibility (CSR) performance of companies in Hong Kong and enhance associated disclosure and communication with their stakeholders.

It is a business-led index that reports on the seven core subjects of the 'ISO 26000 Guidance on Social Responsibility' (Draft International Standard) or ISO/DIS 26000. These are: Organisational Governance, Human Rights, Labour Practices, The Environment, Fair Operating Practices, Consumer Issues, Community Involvement & Development.

The Index was launched in late 2008, two composite indices are announced in this first year of launching the Index results.



- + Hong Kong CSR Advocate Index
- + Hong Kong 100 CSR Index
- + Benefits

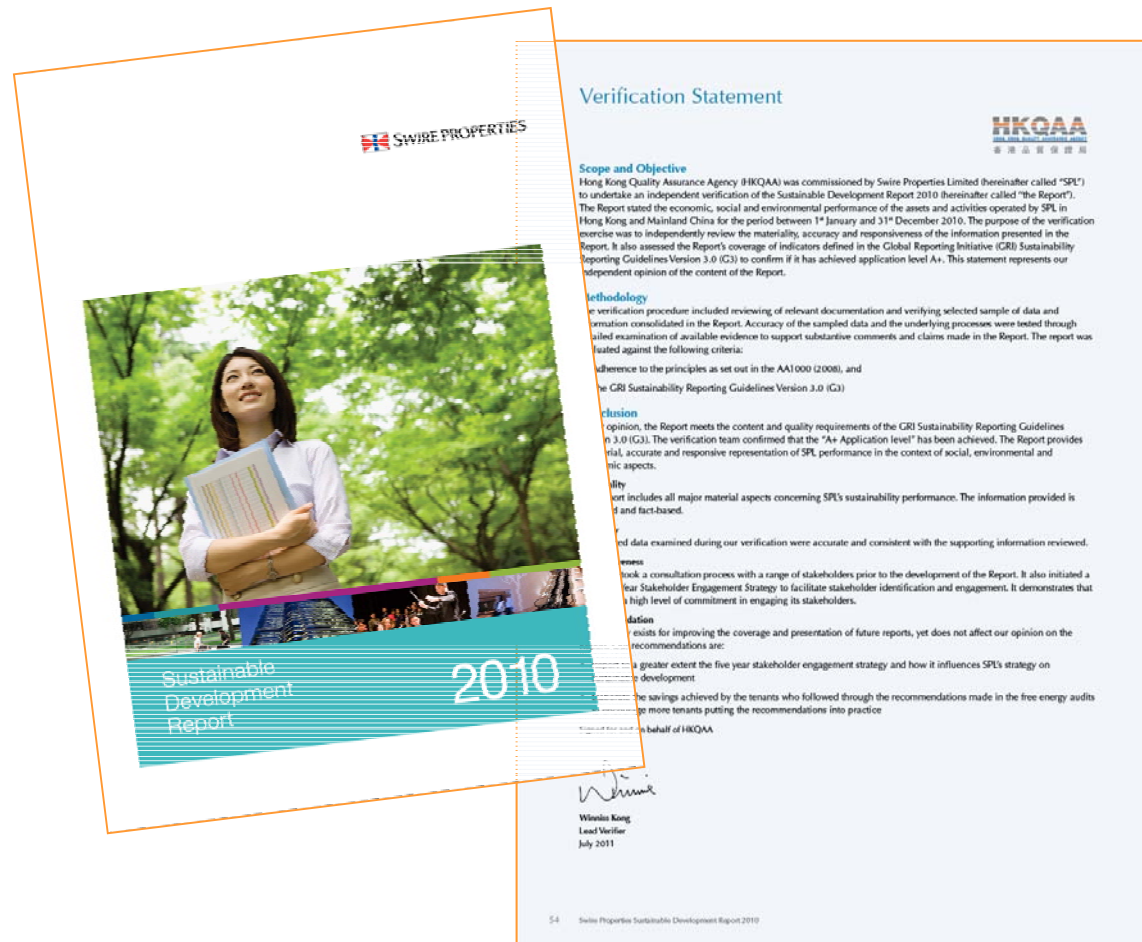


Teresa Au (front row, 5th from right) pictures with Peter K W Mok (front row, 4th from right), Chairman of HKQAA, Michael P H Lam (front row, 5th from left), Executive Director of HKQAA and the participating organisations who are granted a 'CSR Advocate Mark'.

PREVIOUS NEXT

Of interest...

## PROMOTION OF THE CORPORATE SUSTAINABILITY REPORT





# KNOWLEDGE TRANSFER



# OUR PUBLICATIONS





## International Recognition & Accreditation

- Management System Certification Accreditations:
  - CNAS - China National Accreditation Service for Conformity Assessment accreditation
  - HKAS – Hong Kong Accreditation Service accreditation
  - UKAS – United Kingdom Accreditation Service accreditation
- 1st HK organization accredited as a Designated Operational Entity (DOE) by the Executive Board of the Clean Development Mechanism (CDM) under the United Nations Framework Convention on Climate Change (UNFCCC)
- Technical Committee Member of the Global Food Safety Initiative (GFSI)
- Member of the Consumer Goods Forum





## RETURN TO SOCIETY

- Set up the HKQAA Business and Community Supporting Fund (HKQAA BCS Fund)
- Assist industry and commerce to implement the latest international standards
- Support educational and livelihood improvement programs in China

### My Dream Home Project



# Trend of Food Business

- Food supply chain extends further away from its source, both in terms of scope and distance, in today's globalized market
- Consumers, retailers, overseas buyers and governments are increasingly concerns about food safety

## Why Food Safety is Important?



## Why Food Safety is Important?

- Annually, over 3 million children under the age of 5 die of diarrheal diseases among approximately 1,500 million episodes of diarrhea in developing countries. 70% of this incidence is attributable to foodborne illness.
- 6.5 million to 80 million cases of foodborne illness occur annually in the United States.
- About 13 millions children under the age of 5 die each year from infections and malnutrition, most often attributable to contaminated food.
- Serious and chronic health effects of foodborne illness present an additional burden on the health care system, and affect an estimated 3 of every 1,000 prenatal infants.
- The estimated annual medical costs/productivity losses due to the 7 major foodborne pathogens range from \$6.6 billion to \$37.1 billion, according to USDA and Centers for Disease Control and Prevention (CDC) figures

Source: University of Washington



## Top of Mind of Global Consumer Goods Business Leaders

Issue	% of Respondents selected this issue among top 3 in 2011	Rankings	
		2011	2010
Corporate Responsibility	42.2	1	2
<b>Food Safety</b>	<b>40.6</b>	<b>2</b>	<b>4</b>
Economy and Consumer Demand	39.1	3	1
Retailer Supplier Relations	27.1	4	7
Consumer Health & Nutrition	26.2	5	5

Source: The Consumer Goods Forum, 2011

*Food safety has become the priority of global business leaders !*

# Food Safety & Hygiene Control

- How to manage food safety risks effectively?
  - Trend: Proactive food safety control management system and assurance assessment mechanism
  - Step-by-step:
    1. Hygiene Control System (HCS)
    2. Hazard Analysis and Critical Control Points (HACCP)
    3. Food Safety Management Systems (e.g. ISO 22000)



# Food Safety & Hygiene Control

- Benefits
  - Effective cost control and resource optimization
  - Qualified operation management
  - Effectively handle sudden accidents
  - Effectively reduce food safety risk in corporation
  - Increase consumers' confidence
  - Build up positive reputation
  - Enhance competitiveness



## HKQAA – Hygiene Control System





# What is HCS?

- Develop based on relevant international standards:
  - ISO 9001:2000 、 FDA 、 Codex 、 WHO 、 HKSAR – Food & Hygiene Regulations
- Technical Committees include:  
Hospital Authority 、 FEHD 、 Housing Society 、  
Department of Health 、 Hong Kong Hotels  
Association, HK Fort



## A good HCS should include:

1. Management responsibility
2. Relevant hygiene criterion
  - A. Operation process
  - B. Environment
  - C. Food processing
  - D. Individuals
3. Monitoring system to verify the effectiveness.

## HCS –6 guidelines

- A. Management commitment
- B. Manipulated hygiene
- C. Environment & hygiene
- D. Storage and delivery of food
- E. Personal hygiene
- F. System's monitoring, control and verification.

## Audit stages

1. On-site audit: verify the effectiveness of HCS through:
  - Graded checklist
  - Professional auditors
2. Lab test (unannounced) – verify the conformity
  - A. Through recognized lab
  - B. Sampling based on the risk of the site
    - ✓ the quality of air
    - ✓ ice and water
    - ✓ food



## Benefit sectors include:

- Servicing sector :
  - Property management
  - Retail
  - School
  - Hotel
- Food and catering:
  - Restaurant
  - Central kitchen
  - Coffee shop
  - Food factory

# HACCP Certification

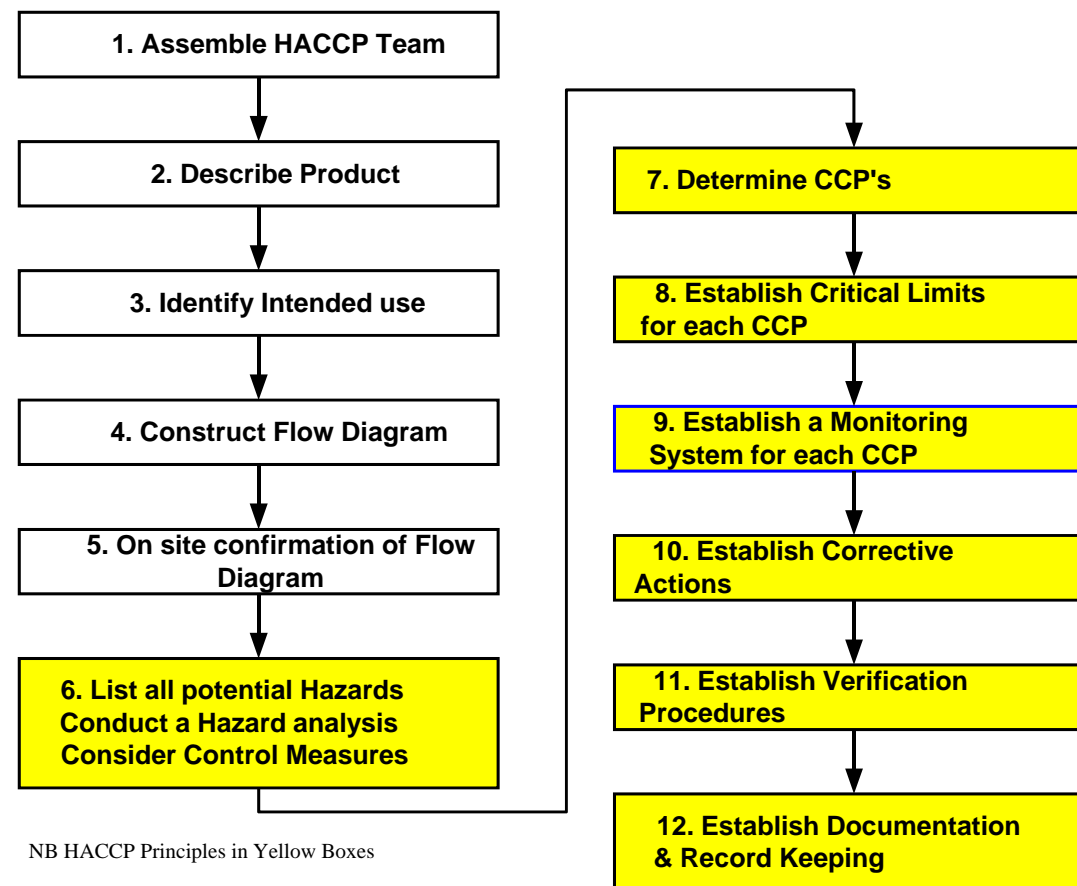
## Hazard Analysis and Critical Control Points



## Why we need HACCP?

- Internal process improvement
- Maintenance of system and compliance with regulatory requirements through regular audits
- Reduced liability exposure
- Enhanced buyers' confidence
- Reduced frequency of customers audits
- Competitive advantage over non-certified companies
- Enhanced company image

# HACCP System





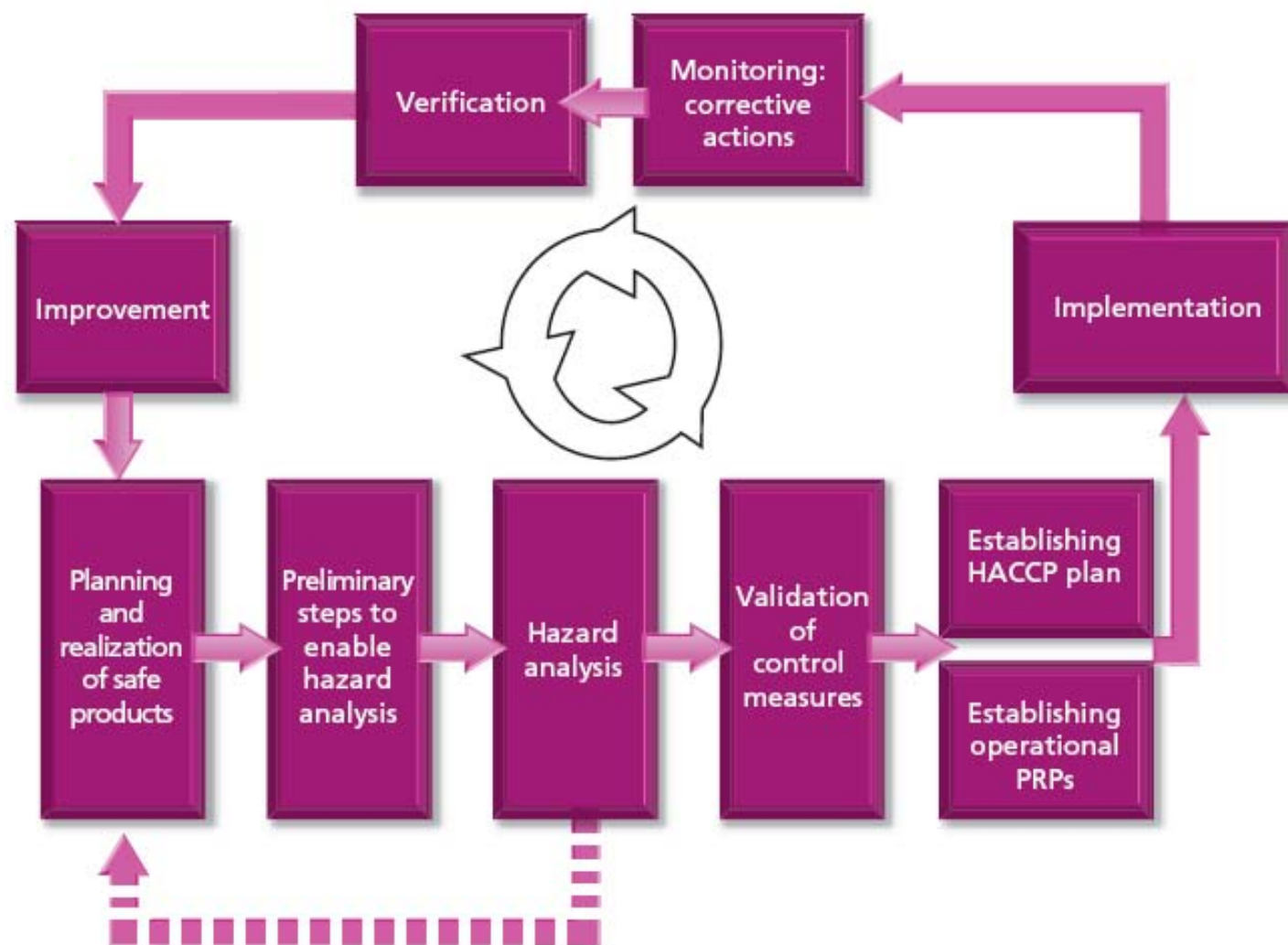
# ISO 22000 Food Safety Management System Certifications



## Why we need ISO 22000?

- Apply Hygiene and food Safety
- Effective cost control and resource optimization
- Qualified operation management
- Effectively handle sudden accidents
- Effectively reduce food safety risk in corporation
- Increased customer confidence

# Process Based Food Safety Management System

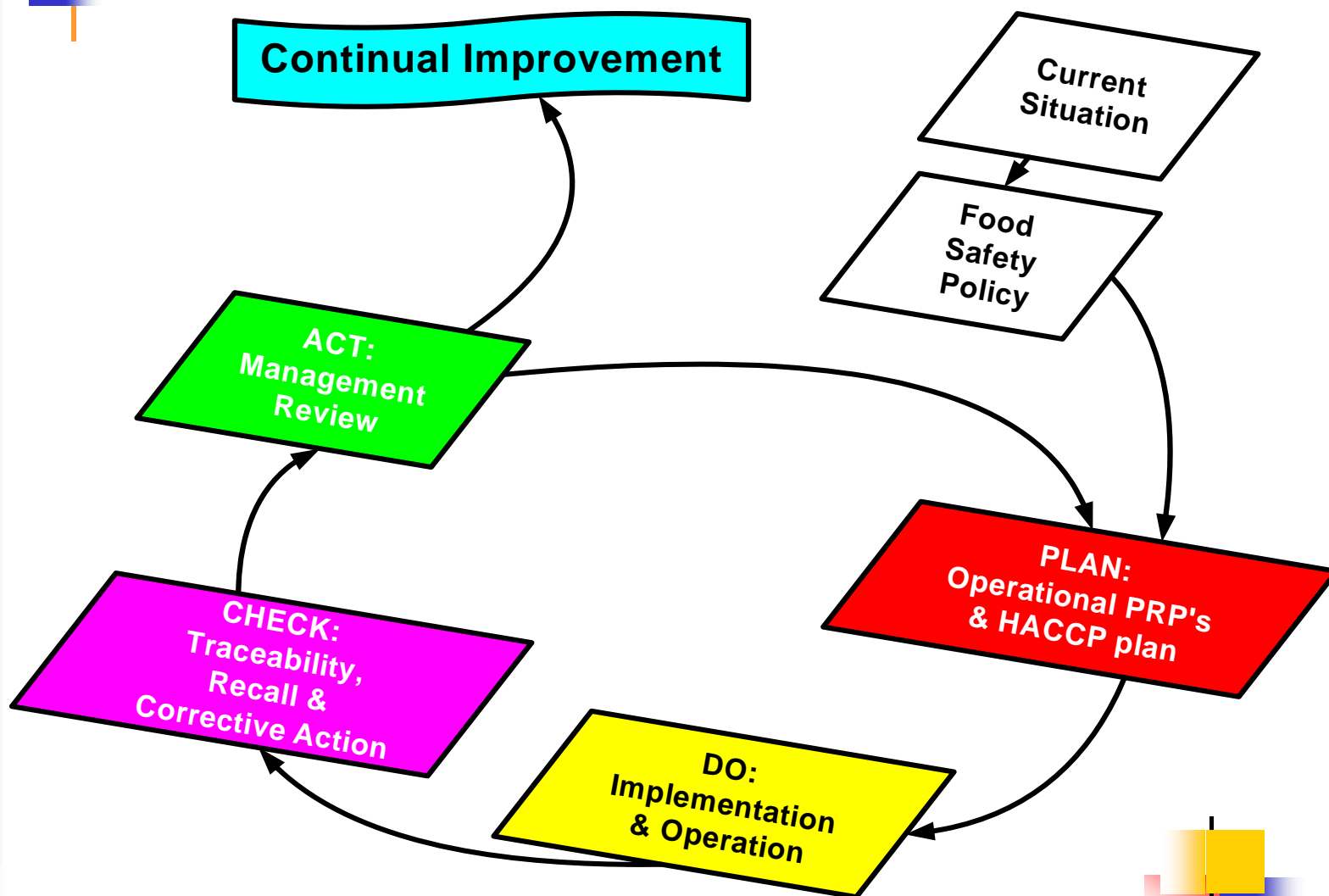


Source: ISO/TS 22004:2005 – Food safety management systems – Guidance on the application of ISO 22000:2005

## Structure of ISO 22000

- Interactive communication → ISO 9001
- System Management → ISO 9001
- Prerequisite programs → HCS
- Operational Prerequisite programs → HCS
- HACCP principles → HKQAA HACCP

# ISO 22000 & PDCA



## Step-by-Step Approach to establish effective Food Safety Management System

### **Initial Stage: Hygiene Control System Certification**

By introducing the ISO 9001 concept with the implementation of Good Hygiene Practice, HKQAA has developed the **Hygiene Control System Certification Scheme in 2004**. The goal of this certification is to develop a framework for managing health risks associated with public hygiene in a systematic manner.



### **Progressive Stage: HACCP Certification**

Based on Codex's "HACCP System and Guidelines" and "Recommended International Code of Practice General Principles of Food Hygiene," HKQAA has developed the **HKQAA HACCP Certification Scheme in 2001**.



### **Mature Stage: Internationally Accredited ISO 22000 certification**





**Let's build up better Food Safety  
from our heart**

***Thank You!***

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