

# Hazardous Chemicals Safety Education

Korea Chemicals  
Management Association



**KCMA**

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Korea Chemicals Management Association

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## ▶ Purpose

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- Contribute to hazard chemical handling facilities' safe chemical management through understanding of CCA and education·training for chemical accident prevention·response

## ▶ Legal basis

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- 「CCA」 Art.33 and its Enforcement rule Art.37

## ▶ Annual average number of students (recent three years)

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- About 98,000 students/year

## ▶ Education hours for each subject to education

Subject		Duration
1. Technical human resources for hazardous chemical handling facility		16hrs/ 2yrs
2. Hazardous chemical supervisor	1) hazardous chemical sales supervisor without handling facility	8hrs/ 2 yrs
	2) hazardous chemical supervisor that does not apply to 1).	16hrs/ 2yrs
3. Hazardous chemical handlers	1) A person employed by the hazardous chemical business operator who handle hazard substance directly	16hrs/ 2yrs (8hrs for transporters)
	2) Contractor and a person employed by contractor who directly handle hazardous chemical	16hrs/ 2yrs (8hrs for transporters)
	3) Person in charge of preparation of risk management plan	16hrs/ 2yrs
	4) Others announced by the Minister of Environment (Person drafting off-site consequence analysis or change of off-site consequence)	16hrs/ 2yrs
4. Etc.	1) Hazardous chemical supervisor qualification course	32hrs(for the 1st time)
	2) Hazardous chemical sales supervisor with out handling facility qualification course	8hrs(for the 1st time)
	3) Expert qualification course (Experts in charge of off-site consequence analysis and/or risk management plan)	16hrs(for the 1st time)
	4) All manpower working in permitted hazardous chemical handling facility (excluding sales without handling facility)	2hrs/ 1yr

## ▶ Education topics for each subject to education

### 1. Technical human resource and hazardous chemical supervisor in hazardous chemical handling facility

- 「CCA」 general chemical safe management, standard for hazardous chemical handling facility and self inspection
- Hazard substance classification · labelling, evacuation · response measures in case of accident, how to wear PPE

### 2. Hazardous chemical handlers

- 「CCA」 general chemical safe management, standard and precautions for hazard substance loading· unloading, moving, handling, storing · keep
- evacuation · response measures in case of accident, how to wear PPE, emergency measures for exposure

### 3. Hazardous chemical transporters

- 「CCA」 general chemical safe management, labelling of hazardous chemical transportation and drafting transportation plan
- standard and precautions for hazardous chemical loading· unloading, evacuation · response measures in case of accident, how to wear PPE

### 4. Subject to hazardous chemical supervisor qualification

- 「CCA」 general chemical safe management, standard for hazardous chemical handling facility and self inspection
- Hazardous chemical classification · labelling, evacuation · response measures in case of accident, standard and how to select PPE, response equipment

## ▶ Contents(Training)

### PPE Training



- PPE(protective clothing, gas mask, gloves, boots) dressing and undressing

### VR Training



- Experience daily inspection and main accidents through VR








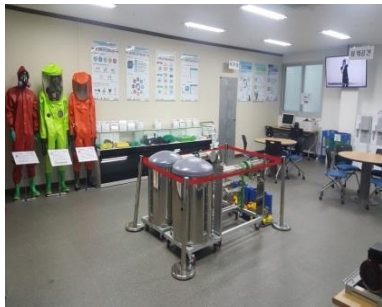


### Facility Model Training



- Sealing band and component explanation
- Explain how to use and practice

## ▶ Regional education and private training center

- Three regional centers and two private training center based on main industrial complex

Jungbu	Yeongnam	Honam	Busan	Ansan
				
				
<p><b>Center status</b> - Daejeon Yuseong-gu - Capacity : 120</p>	<p><b>Center status</b> - Ulsan Onsan eup - Capacity : 120</p>	<p><b>Center status</b> - Jeonnam Yeosu - Capacity : 120</p>	<p><b>Center status</b> - Busan Geunjeong Gu - Capacity : 100</p>	<p><b>Center status</b> - Kyungkido Ansan - Capacity : 100</p>

## ▶ Special safety education for vulnerable facility

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- Conduct education for vulnerable SMEs
  - Hazard chemical substance check → Draft and provide inventory which includes regulation requirements
  - Provision of customized education of prevention · response measures and chemical accident cases of handling substance
  - Conduct education for foreign workers and provide textbook
- Focused support for chemical supervisors and handlers
  - Performs improvement monitoring for businesses
  - Hold seminars and produce promotional materials for safe management of hazardous chemicals

## ▶ National human resource development consortium project

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- **Chemical management practical course, Chemical registration·evaluation practical course, hazard chemical handling facility management practical course, risk assessment drafting practical course, chemical verification and PRTR reduction technology application practical course (Composed of five courses in total)**
  - ⇒ Customized education for hands-on workers of hazard substance handling facility for the better understanding and compliance with ARECs·CCA

## ▶ Off-site consequence analysis practical course

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- Provide education for business to draft self off-site consequence analysis by focusing on hands-on training

## ▶ GHS and MSDS drafting practical course

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- Provide education mainly for hands-on workers to draft and review GHS classification, MSDS on their own in accordance with CCA and OSHA



# Thank you

