

計畫名稱/plan name：107 年度化學品危害資訊與技術發展計畫

Development Project of Chemical Hazard Information and  
Technology in 2018

執行單位/execution unit	財團法人安全衛生技術中心 Safety and Health Technology Center
計畫緣起/history	<p>為順利推動職安法中關於化學品之重點管理制度，包括新化學物質核准登記、優先管理與管制性化學品之指定及許可、危害性化學品標示、評估及分級管理等，需持續積極發展相關工具與研發技術，以提供勞動場所化學品之登記管理，建立以暴露評估風險為基礎之重點管理作為，落實職安法保障勞工安全健康及預防職業災害。</p> <p>In order to smoothly promote the key management for chemicals in the Occupational Safety and Health Act, including the registration of new chemical substances, priority chemical notification and the controlled chemical permits, the labeling, assessment and control banding of hazardous chemicals, it is necessary to continue to positively develop relevant tools and technologies to provide management of workplace chemicals, establish key management based on exposure risk assessment, and fulfill the protection of labor safety and health and prevention of occupational accidents in Occupational Safety and Health Act.</p>
計畫目標/goal	<p>為保障廠場（工廠與作業場所）勞工使用化學品之安全，需建立健全之國家化學品安全管理機制，並加強提升勞工對化學物質危害的認知，以保護勞工的健康與生命安全。</p> <p>Establishing national sound chemical management mechanism and raising workers' awareness are essential prerequisites for improving chemical safe use in factories and workplaces to secure workers' safety and health.</p>
工作項目/work item	<p>一、擴充化學品危害辨識資料庫與進階分級管理技術工具；</p> <p>1. To expand the hazards identification database and advanced tools for control banding;</p> <p>二、發展化學物質安全評估機制與配套管理措施；</p>

	<p>2. To develop chemical safety assessment mechanism and supporting measures;  三、建置高風險化學品之暴露評估與重點管理技術工具；</p> <p>3. To establish exposure assessment tools for chemical of high risk and devise priorities management tools;  四、提供化學品危害預防宣導及專業技術諮詢服務。</p> <p>4. To raise awareness of chemical management and to provide professional consulting services.</p>
執行績效/performance	<p>一、在擴充化學品危害辨識資料庫與進階分級管理技術工具方面，完成我國導入歐洲 ECETOC TRA 及荷蘭 Stoffenmanager 等 2 式工具中文化之可行性評估，並完成歐洲 ECETOC TRA 之輔助中文化界面工具測試版本建置；完成 ECETOC TRA 及 Stoffenmanager 等暴露評估工具基礎演算方法比較，以及 ECETOC TRA 從英國 EASE 模式發展，第 1 版至第 3 版之演進背景與參數調整過程；並製作完成 200 種危害物質的危害辨識資料庫（標示、SDS 例初稿），持續完善廠場化學品管理相關技術資源。</p> <p>1. As for expanding the hazard identification databases and advanced tools for control banding, the following tasks have been delivered to improve the technical resources related to chemical management in workplaces continually:</p> <p>(1) Provided the feasibility analysis of ECETOC TRA (ECETOC Target Risk Assessment) and Stoffenmanager® for Taiwan and delivered the ECETOC TRA interface in Chinese language;</p> <p>(2) Compiled a technical report comparing the estimation models among variant tools, such as ECETOC TRA and Stoffenmanager® and outlining the development of the EASE Model and difference of between ECETOC TRA version 1, 2 and 3;</p> <p>(3) Delivered hazard identification data of 200 hazardous substances, including labels and draft SDS.</p>

二、在協助發展我國化學物質安全評估機制與配套管理措施方面，已完成 10 個物質暴露參考值製備範例及製備相關要點、新化學物質簡易與少量之新化學物質之物化及毒理之初篩分組作業；另完成配合新化學物質登記統一收件窗口進行工具修訂確認，並提供跨部會討論議題作法建議，持續完善相關評估機制及配套措施。

2. As for developing chemical safety assessment mechanism and supporting measures, the following tasks have been delivered to improve the assessment mechanism and supporting measures continually:

- (1) Delivered the referential inputs and key items to estimate exposure for 10 selected substances; performed grouping of chemicals registered under new chemical simplified and small quantity registration by their physico-chemical and toxicological property;
- (2) Modified IT tools to be in line with the interagency new chemical unified registration portal and provided professional suggestions regarding interagency cooperation.

三、在建置高風險化學品之暴露評估與重點管理技術工具方面，研析國際間於風險評估後之管理政策作法，以作為建立列入各法規清單判斷準則之依據，及針對我國特定化學物質危害預防標準及有機溶劑中毒預防規則與日本法規進行相關比較及分析；另完成化學品備查及許可工具修正、及 100 種優先管理、管制性化學物質候選物質辨識資料庫之更新作業，以確保相關資訊及規定與時俱進，符合國際管理趨勢。

3. As for establishing exposure assessment tools for chemical of high risk and devising priorities management tools, the following tasks have been delivered to ensure that the relevant information and regulations keep pace with the times and keep in line with international management trends:

- (1) Provided an overview of chemical risk assessment and its implication on chemical inventory policy;

	<p>(2) Compiled an analysis comparing related Japanese regulations with the “Standard on Hazard Prevention of Specified Hazardous Chemicals” and “Regulation on Poisoning Prevention of Organic Solvents”;</p> <p>(3) Modified the IT tools for chemical notification and permission and updated the hazardous chemical database for 100 priority and controlled chemicals.</p> <p>四、在提供化學品危害預防宣導及專業技術諮詢服務方面，已完成製作 2 式化學品法令宣導工具（懶人包），及宣導教育訓練簡報教材；並蒐集 SAICM 工作領域管理策略動態與 ILO 化學品管理與工作安全相關公約最新發展動態、針對 SAICM 五大目標篩選出與我國職安法化學品安全相關之指標以及辨識出與我國化學品管理主管機關相關之重要指標，盤點我國化學物質管理與國際趨勢之符合度，並持續完善相關宣導工具。</p> <p>4. As for raising awareness of chemical management and providing professional consulting services, the following tasks have been delivered to inventory the conformity of chemical substance management in Taiwan with international trends and improve relevant awareness raising materials continually:</p> <p>(1) Provided 2 media clips of regulation awareness raising and training materials;</p> <p>(2) Collected the updates of the work activities of UN SAICM, the chemical management of ILO, and related international treaties;</p> <p>(3) Identified chemical safety indicators under OSHA and managerial indicators for the competent authorities according to the 5 objectives of UN SAICM.</p>
--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------