



University : National Chin-Yi University of Technology
Country : Taiwan
Web Address : www.ncut.edu.tw

[SDG 12] Responsible Consumption and production 責任消費與生產

[12.2.3] Does your university as a body have a policy on waste disposal - Covering hazardous materials?
是否有關於廢物處理的政策、流程或做法 - 涵蓋危險材料？

Yes — NCUT has a formal policy on waste disposal, including the handling of hazardous materials, to ensure compliance with environmental regulations and safeguard campus health and safety. This is managed through its Environmental Protection and Occupational Safety and Health Center and is strictly aligned with Taiwan’s Environmental Protection Administration (EPA) standards.

NCUT’s Waste Disposal and Hazardous Materials Policy

1. Garbage Reduction and Recycling

- NCUT enforces the *Regulation for Implementation of Garbage Reduction and Resource Recycling*.
- All campus buildings are equipped with categorized recycling bins for paper, plastic, glass, metals, and batteries.
- Recyclables are collected daily and sent to certified recycling facilities, with revenues reinvested in school funds.
- Students are actively involved: each must complete **54 service-learning hours**, often through recycling and waste-sorting. Competitions further reward effective recycling practices.

2. Hazardous Waste and Toxic Substances

- NCUT follows strict SOPs for toxic chemical acquisition, storage, utilization, and disposal.
- A GPS-enabled tracking system monitors industrial waste transportation from campus to certified disposal facilities.
- Waste liquids from laboratories are collected in dedicated containers, temporarily stored in secure areas, then transferred to approved waste companies.
- EPA Reporting: NCUT submits detailed reports to the Environmental Protection Administration, with documentation reviewed by the Environmental Safety Center.
- Government-approved “Proper Disposal Certificates” confirm all hazardous waste is safely processed.



- Oversight is provided by the Taichung City Environmental Protection Bureau, ensuring full legal compliance.
- NCUT manages 31 types of toxic chemical substances, classified under Categories 1–4, with approval from the Taichung City Environmental Protection Bureau.
- Category 1–3 chemicals are stored under licensed conditions; Category 4 substances have permits for handling and storage.
- Hazardous industrial liquid waste (e.g., solvents, chemical effluents) is declared monthly on the EPA website, with records kept for audit and inspection.
- Temporary storage areas meet EPA-approved standards for containment, labeling, and access control.

3. Infrastructure and Continuous Improvement

- In June 2022, NCUT installed a 13.8KW garbage compressor to reduce the frequency of garbage removal and improve efficiency.
- Continuous monitoring, inspections, and training ensure both staff and students remain engaged in pollution prevention and eco-friendly practices.

4. Compliance and Training

- The Environmental Safety and Health Committee meets biannually to review compliance and update policies.
- Faculty and students undergo mandatory safety training on chemical handling, waste segregation, and emergency response.

5. Reporting and Transparency

- NCUT regularly reports waste volumes and hazardous material handling to the Taichung City Environmental Protection Bureau and the EPA for supervision.
- Records are published for accountability, ensuring zero violations of the Environmental Protection Act to date.

6. Commitment to Environmental Awareness

Through education, service-learning, and green campus initiatives, NCUT fosters a culture of environmental responsibility. Its waste management and hazardous material policies demonstrate a strong commitment to sustainability, safety, and global environmental protection.

Contribution to SDGs

- **SDG 3 – Good Health and Well-Being:** Safe handling of toxic materials.

- **SDG 6 – Clean Water and Sanitation:** Preventing chemical discharge into waterways.
- **SDG 12 – Responsible Consumption and Production:** Structured waste reduction and recycling.
- **SDG 13 – Climate Action:** Reducing landfill and incineration impacts.
- **SDG 15 – Life on Land:** Protecting ecosystems from hazardous waste contamination.

NCUT has installed a 13.8KW garbage compressor (as shown in the picture) in June 2022 to reduce the number of garbage removals



C. Reduce Waste Generation

(A) Reduce the Use of Disposable Tableware and Bottled Water

Since November 2022, NCUT has implemented a policy to reduce the use of disposable tableware and bottled water for meetings, training sessions, and activities conducted by top-level units. This policy applies to events such as school council meetings, various administrative meetings, school anniversary events, sports days, and fairs. The use of disposable tableware and bottled water at meetings and activities organized by other administrative units or student clubs, such as departmental or club visits, is recommended to be minimized through advocacy and promoting green actions to reduce environmental burden.



▲ Reusable Meal Boxes



▲ Eating Cycles

(Nutrients Consumed, Food Waste Left Behind, Lunch Boxes Returned)

(B) Waste Reduction

To respond to the government's environmental protection policy, NCUT has formulated Waste Reduction and Resource Recovery Regulations. By improving the planning and management system, the university strengthens the recovery and recycling of resource waste. Through education and advocacy for the active promotion of waste reduction, NCUT also achieves the sustainable utilization of resources, improves quality of life, maintains the ecological environment, and creates a healthy, safe, and comfortable campus environment.

NCUT has introduced waste compactors as part of its waste management strategy, designed to compress domestic waste collected from each building on campus. By compacting the waste, it is packaged into dense, flat, and stackable blocks, which reduces the amount of space occupied by waste. The use of waste compactors not only increases the available space for waste storage but also enhances transportation convenience as waste blocks are easier to handle and transport, leading to significant reductions in transportation costs. Furthermore, compacting the waste reduces the risk of flammability, particularly with loose waste paper, contributing to improved safety and reducing the risk of fire hazards on campus.

(C) Treatment of Hazardous Industrial Waste

At NCUT, hazardous industrial waste is managed through a combination of outsourced services and compliance with environmental regulations set by the Environmental Protection Administration. The process involves contracting qualified hazardous waste removal and treatment companies. In line with EPA regulations, a hazardous waste transport manifest has been created and signed by both removal and treatment companies. Once waste is processed by a certified treatment facility, a "Hazardous Industrial Waste Proper Treatment" document is issued and retained by the Center for Environmental Protection and Occupational Health and Safety.

Each laboratory collects laboratory waste liquids in designated recycling bins, which are then stored in departmental waste liquid storage rooms. Once a certain quantity is accumulated, the waste is handed over to government-approved hazardous waste disposal companies for transportation to certified treatment facilities.



▲ The Hazardous Waste Treatment Process of NCUT

(D) Resource Recovery

The NCUT Waste Sorting and Resource Recycling Implementation Guidelines detail the types, storage, processing procedures, and designated responsibility areas for resource recycling, providing a basis for all faculty and students to follow in their recycling efforts.

After the cleaning staff in each building collects recyclable items and deposits them at designated resource recycling stations, the Center for Environmental Protection and Occupational Health and Safety sorts the items. Sorted materials are then entrusted to the Taiping District Cleaning Team of Taichung City for recycling.



▲ Cleaning Crew Recycling



▲ Resource Recycling Bins



▲ Paper Container Recycling



▲ Waste Battery Recycling



▲ Paper Recycling

認識資源回收

臺中市已實施垃圾強制分類，請民眾配合做好垃圾分類及資源回收工作，將資源及廚餘交由適當管道回收。

具毒性回收項目

含銻鉛型電池、充電型電池
請自物品取出集中後交給回收車或送至回收站及販賣點回收。



乾電池及行動電源

回收前應裝妥妥善打包，再交由回收車收運。



照明光源

回收前應裝妥妥善打包，再交由回收車收運。



預約回收項目

陶瓷磚瓦

少量請交由沿線清潔隊回收，回收大量者請洽各區清潔隊預約回收。



摺用家具及腳踏車

請事先與各區清潔隊聯繫，預約回收清理時間。



一般類資源回收項目

紙類

先去除膠帶和覆封面、外封套、筆記本之塑膠膜、膠帶、訂書針後將之鋪平壓扁，並以易於辨識的方式分類。



免洗餐具(含塑膠、紙、金屬)

回收前請先去除食物殘渣，以水略加清洗或用水衝洗後再回收。



紙容器(鋁箔包)

回收前請先去除吸管，以水略加清洗或用水衝洗後再回收。



塑膠容器及寶特瓶

回收前請先去除吸管或瓶蓋並倒空內容物，以水略加清洗或用水衝洗後再回收。



鋁鐵罐

回收前請先去除吸管並倒空內容物，以水略加清洗或用水衝洗後再回收。



塑膠製品

如塑膠椅、水桶、托盤等單一材質塑膠製品。



玻璃

玻璃回收：包含玻璃瓶、玻璃杯、平板玻璃。
玻璃瓶回收前，請先去除吸管並倒空內容物，以水略加清洗或用水衝洗後再回收。



行動電話及光碟片

包括座充、旅充充電器均可回收。
如CD、VCD、DVD等光碟片。



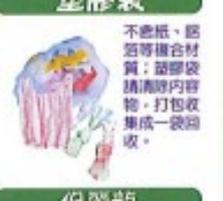
舊衣

不含棉絨、絨類、內褲等。回收前請清洗乾淨勿弄濕，並打包後回收。



塑膠袋

不透明、膠帶等複合材質；塑膠袋請將內容物、打包後再回收。



資訊物品

墨水匣及碳粉匣請交由原廠定向回收。



電子電器

如電冰箱、電視、冷、暖氣機、洗衣機及小家電(如電風扇)等。
家電四機填單回收 買新汰舊加倍安心



環境衛生用藥容器

回收前請先將內容物用盡，避免發生危害。



食用油

烹調食物所使用之油(如回鍋油)及過期的食用油。請以容器裝裝蓋緊，交予回收車。



保麗龍

回收前請先去除膠帶、木材、鐵釘等非保麗龍材質之包裝。



二手物銀行 二手物品展售中心

玩具(高絨毛及塑膠玩具)、家用品(含小家電)、餐具(好麗屋碟等)、服飾(高跟鞋、包包等)、書籍雜誌等五大類二手物品及電腦電池。

◎地點1: 實之林環保教育園區(地址: 北屯區新莊路439號/電話: 04-24369702)
◎地點2: 漢洋國際家電館內(地址: 北屯區中平路97號/電話: 04-24263981)
◎線上購物: <http://recycle.epa.taichung.gov.tw/secondhand/>
◎回收專線: 04-22294025 (請事先將物品整理乾淨及分類打包)

維修咖啡館

◎地點1: 實之林環保教育園區(地址: 北屯區新莊路439號/電話: 04-24369702)
◎地點2: 豐原區資源回收中心(地址: 豐原區豐原路一段69號/電話: 04-25241151)
◎服務: 1. 維修講座—不定期舉辦修繕維修項目講解及經驗交流。
2. 維修平台—提供維修工具、平台與維修師志工勞動時間，與市民間的自行維修、與志工互助學習。

家電診所 小家電簡易維修

電風扇、吹風機、掃帚、電鍋(含電子鍋)、果汁機、熱水瓶、洗衣機、檯扇、暖氣機、快煮鍋及快鍋(含燒烤爐)等，每件酌收50元工本費。

◎地點1: 實之林環保教育園區(地址: 北屯區新莊路439號/電話: 04-24369702)
◎地點2: 漢洋國際家電館(地址: 北屯區中平路97號/電話: 04-24263981)

源頭減量優惠措施

◎ 咖啡杯送至連鎖店、超商及飲料店之連鎖門市即可享現金折扣、集點送禮或送加量等優惠。
◎ 掃碼與購物袋至「綠色友善商店」消費，即可享0.5%現金折扣、集點送禮或送加量等優惠。
上述減量優惠皆以優惠方案為主

廚餘類(注意事項)

生廚餘

◎不回收項目: 糖果糖、蛋殼、麵粉、木屑、竹類。



熟廚餘

◎不回收項目: 骨頭、海鮮殼、中國渣。



※注意事項:
1. 廚餘投入前應先去水份及雜質(塑膠袋、牙籤、竹筷、衛生紙等垃圾)。
2. 不回收項目應視為一般垃圾。

過期藥丸、藥水處理 一、過期藥丸、藥水以一般垃圾處理。
二、過期麻醉及癌症類藥物請送回原開立醫院、藥局。

← → C waste.epa.gov.tw/prog/IndexFrame.asp?Func=2&r=16

環境首頁 | 盈出申報區 | Solid Waste Export System | English | 網站導覽 | 申報維護網頁

行政院環境保護署 事業廢棄物申報及管理資訊系統

訊息區 申報區 專題區 各類查詢 統計資料 下載區

目前線上人數: 4503 今日累積人數: 54967 30日內完成再利用, 應經再利用之目的事業主管機關同意。 2. 關於事業產生之員工生活垃圾相關清理及申報規定, 詳如最新消息。 3. 行政院性別平等會: https://gpc.epy.gov.tw/index.aspx

申報提報行事項 廢食用法專區 裝潢修繕廢棄物清理申報專區 申報區首頁 清理計畫書 基礎資料 帳號資料設定 系統問題諮詢信箱 環境保護許可管理資訊系統(EMIS) 收受公民營特定制送資源化產品申報

事業機構名稱: 國立勤益科技大學

委託或共同處理-事業機構申報資料查詢結果: 計4筆資料
查詢日期: 110年08月01日至111年08月16日(此介面顯示之資料為除單據說明後之正確資料)

報單編號	申報日期	清運日期	清除者	運送日期	清除者是否接受	處理者	收受日期	中間處理方式	處理完成日期	最終處理方式	處理者是否接受	最終處理者	建檔日期	最終處理者是否接受	員於液向	廢棄物代碼	廢棄物重量	廢棄物數量	GPS車行軌跡	毒性化學物質廢棄物管理章	封存場申報後檢核章	列印
L0419212-11000001	1100810	1100823	南科環境技術股份有限公司	1100823	Y	國立成功大學環境資源研究中心資源回收廠	1100824		1100923	電鍍廢液再利用	Y					D-1799 D-2301 D-2302 D-2399	0.08 0.18 0.18 0.02	3	GPS			列印
L0419212-11000002	1100810	1100823	南科環境技術股份有限公司	1100823	Y	國立成功大學環境資源研究中心資源回收廠	1100824		1100923	電鍍廢液再利用	Y					C-0119 C-0202	0.1 0.03	1	GPS			列印
L0419212-11000003	1100810	1100823	南科環境技術股份有限公司	1100823	Y	國立成功大學環境資源研究中心資源回收廠	1100824		1100923	電鍍廢液再利用	Y					C-0299 C-0399	0.02 0.02	1	GPS			列印
L0419212-11000004	1100810	1100823	南科環境技術股份有限公司	1100823	Y	國立成功大學環境資源研究中心資源回收廠	1100824		1100923	電鍍廢液再利用	Y					C-0399	0.005	1	GPS			列印



Toxic waste (waste liquid) storage space



Toxic waste (waste) is disposed of by a legal waste disposal company



handling of hazardous materials



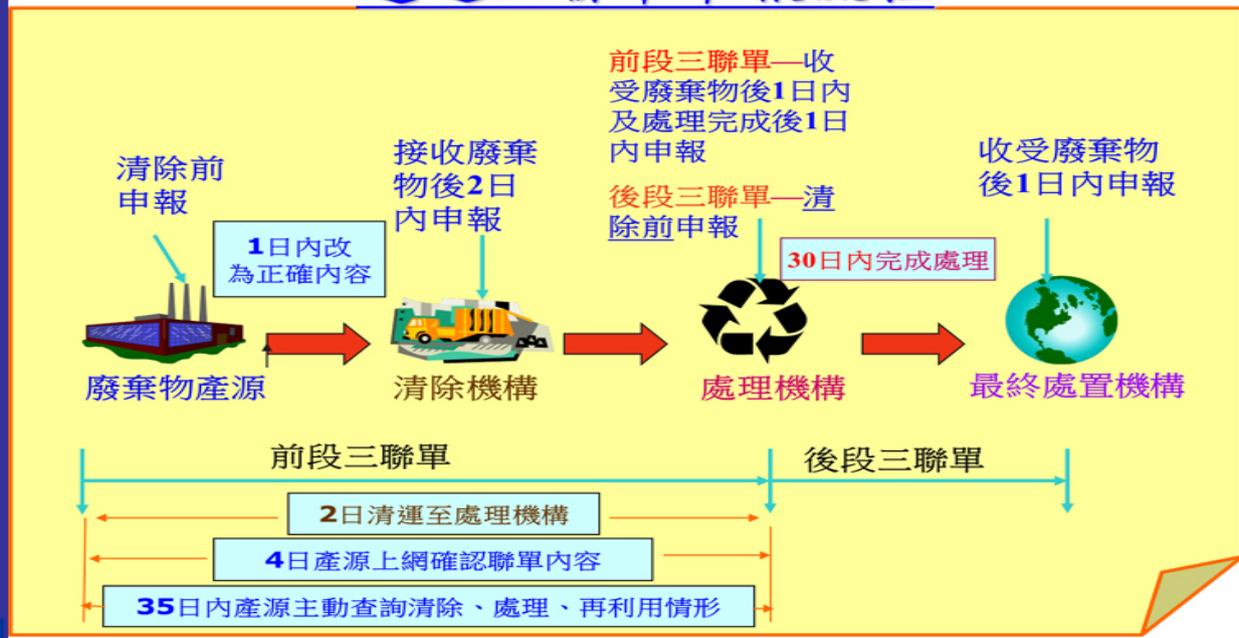
The lab



The lab

遞送三聯單申報流程 申報流程圖

遞送三聯單申報流程



Hazardous waste entrusted treatment form

檔 號：
保存年限：

行政院環境保護署 函

地址：10042 臺北市中正區中華路1段83號
聯絡人：蔡秋美
電話：(02)23257399 #55407
傳真：(02)23253823
電子郵件：cmtsai@epa.gov.tw

受文者：教育部

發文日期：中華民國109年1月22日
發文字號：環署化字第1098000045B號
速別：普通件
密等及解密條件或保密期限：
附件：發布令影本(含法規命令條文)1份、修正總說明及條文照表 (1098000045B-0-0.pdf、1098000045B-0-1.pdf、1098000045B-0-2.pdf)

主旨：「毒性化學物質運送管理辦法」業經本署會銜交通部於109年1月22日以環署化字第1098000045D號、交路字第10900001151號令修正發布，名稱並修正為「毒性及關注化學物質運送管理辦法」，檢送發布令影本(含法規命令條文)、修正總說明及條文照表各1份，請查照，並轉知所屬。

說明：

- 一、為因應毒性及關注化學物質管理法（以下簡稱本法）108年1月16日修正公布，依本法第40條規定，運送第一類至第三類毒性化學物質及經中央主管機關指定公告具有危害性關注化學物質者，應納入本辦法規範，為符合現行實務表單之核准作業方式，將現行聯單改為表單，且配合實務管理，整合海陸及航空之管理規定，並新增即時追蹤系統應先經審驗合格及中央主管機關核可後，始得運送，爰修正本辦法，其修正重點如下：

Inorganic Waste Disposal Document

國立勤益科技大學環境保護及安全衛生中心 實驗室安全衛生查核作業流程

- 1.目的：讓全校各具實驗室之負責人能自行針對所屬實驗室進行安全管理，提供學生一個安全之學習環境。
- 2.依據：「教育部大專院校實驗場所安全衛生查核體系建構推行計畫」
- 3.範圍：全校各實驗室、實習工廠。
- 4.權責：詳如 5 作業說明。

作業流程	權責單位	執行時間	相關表冊
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">訂定年度實驗室安全衛生查核計劃</div>	邱明哲/2576	一日	(1) 查核計畫 (2) 查核表
↓			
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">通知各實驗室負責人，先自行查核</div>	邱明哲/2576 各具實驗室之系所	二週	
↓			
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">環安中心將排定時間表對全校實驗室進行查核</div>	邱明哲/2576 各具實驗室之系所	一個月	
↓			
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">查核結果</div>	邱明哲/2576 各具實驗室之系所	二週	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">合格</div> <div style="width: 45%;">不合格</div> </div>			
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">將缺失彙整，函文通知實驗室系所限期改</div>	邱明哲/2576 各具實驗室之系所	一週	
↓			
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">環安中心排定時間表進行複查</div>	邱明哲/2576 各具實驗室之系所	二週	
↓			
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">函文通知實驗室系所知照</div>	邱明哲/2576	一個月	
↓			
<div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: fit-content; margin: 0 auto;">結案</div>	邱明哲/2576 各具實驗室之系所		