

Proposal for Amendments to the Legal Inspection Requirements for Hand-held Electric Tools

By the Bureau of Standards, Metrology and Inspection (BSMI), Ministry of Economic Affairs

Introduction:

In view of the growing prevalence of rechargeable hand-held tools and their increasing use by consumers, concerns have arisen regarding product safety due to the potential risks posed by substandard lithium batteries. Furthermore, updated safety and electromagnetic compatibility (EMC) standards for hand-held electric tools have been officially promulgated. To ensure the electrical and lithium battery safety of these products and to safeguard consumer use, it is proposed that rechargeable hand-held electric tools be included within the scope of mandatory inspection, along with an update to the applicable inspection standards. The Conformity Assessment Procedures will remain unchanged.

Proposed date of implementation:

Item 1~7: 1 January 2028.

Item 8~19: 1 July 2028.

Scope of covered products:

Item	Description of Goods	Inspection Standards (Note)	C.C.C. Code (the first 6 digits are the same as HS Code)(For reference)	Conformity Assessment Procedures
1	Hand-held electric drills and impact drills (limited to hand-held operation, rated voltage $\leq 250V$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-1:2023 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.21.00.00.5	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
2	Hand-held circular saws (limited to hand-held operation, rated voltage $\leq 250V$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-5:2017 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.22.00.00.4A	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
3	Hand-held sanders and polishers other than disc type (limited to hand-held operation, rated voltage $\leq 250V$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-4:2016 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.10.00.5A	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
4	Hand-held grinders, disc-type polishers and disc-type sanders (limited to hand-held operation, rated voltage $\leq 250V$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-3:2022 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.10.00.5B	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme

5	Hand-held impact wrenches (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-2:2016 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.30.00.1	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
6	Hand-held screwdrivers (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-2:2016 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.90.00.8A	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
7	Hand-held car polishers (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-3:2022 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.90.00.8B 8509.80.90.00.4F	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
8	Hand-held nibblers (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-8:2020 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.90.00.8C	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
9	Hand-held tappers and threaders (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-9:2016 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.90.00.8D	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
10	Hand-held planers (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-14:2020 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.90.00.8E	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
11	Hand-held routers (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-17:2020 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.90.00.8F	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
12	Hand-held drain cleaners (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-21:2020 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.90.00.8G	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
13	Hand-held hedge trimmers (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or	1. CNS 62841-1:2017 2. CNS 62841-4-2:2023 3. CNS 13783-1:2013 4. CNS 15663:2013:	8467.29.90.00.8H	RPC Scheme (Modules II+IV or II+V or II+VII)

	equipment designated under the Occupational Safety and Health Act)	Section 5 “Marking of presence”		or TABI Scheme
14	Hand-held lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-4-4:2023 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.90.00.8I	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
15	Hand-held grass shears (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-4-5:2023 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.90.00.8J	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
16	Hand-held reciprocating saws (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-11:2020 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.22.00.00.4B	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
17	Hand-held chain saws (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-4-1:2021 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.22.00.00.4C	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
18	Hand-held die grinders (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. IEC 62841-2-23:2024 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.10.00.5C	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
19	Hand-held shears (limited to hand-held operation, rated voltage $\leq 250\text{V}$, and not classified as machinery or equipment designated under the Occupational Safety and Health Act)	1. CNS 62841-1:2017 2. CNS 62841-2-8:2020 3. CNS 13783-1:2013 4. CNS 15663:2013: Section 5 “Marking of presence”	8467.29.20.00.3	RPC Scheme (Modules II+IV or II+V or II+VII) or TABI Scheme
Note: 1. Power cords shall conform to CNS 15767-1 “Plugs and socket-outlets for household and similar purposes - Part 1: General requirements” or the relevant national standards for power cord sets. 2. Lithium batteries shall conform to Annex K or L of CNS 62841-1. 3. Where lithium batteries conform to IEC 63370, and the certificates issued by certification bodies or test reports issued by testing laboratories accredited by the Taiwan Accreditation Foundation are provided, the following test items under CNS 62841-1 may be exempted: K.9.1, K.9.3, K.9.5, K.12.201, K.13.2, K.13.2.201, K.18.1(a), K.18.1(d), K.18.1(e), K.18.1(f), K.18.201, K.18.202, K.19.202, K.20.1, K.20.3.1, K.20.3.2, K.21.202, K.21.203, K.22.2, K.23.201, K.23.202, and K.28.1.				

Description of the two kinds of conformity assessment procedures

1. Registration of Product Certification (RPC) Scheme:

For product subject to Modules II+IV, II+V, or II+VII procedures, not only the products shall be type-tested in advance (Module II) by the BSMI or BSMI-recognized testing laboratories, but the quality management systems of the production premises must be in conformity with Module IV (Full Quality Management System), Module V (Production Quality Management System) or Module VII (Factory Inspection).

For Module IV and Module V, a registration certificate in accordance with the CNS 12681 (ISO 9001) is required to be obtained from the BSMI, or certification bodies recognized by the BSMI. As for Module VII, a factory inspection report issued by the BSMI or BSMI-recognized factory inspection bodies is needed in the same way.

In addition, a declaration of conformity-to-type is also required to ensure that the mass-produced commodities are in conformity with that shown in the type-test report for all the above three IV, V, VII modules.

After being certified and registered by the BSMI, products will be allowed to use the Commodity Inspection Mark with the letter 'R' and the identification number given by the BSMI. Additionally, these products can clear customs directly without any further inspection if not being sampled by RPC border check procedures. The application fee and annual fee for RPC are both NT\$5,000 (about US\$170) for each certification, and the RPC certification is valid for 3 years. If there are any serial products, an extra NT\$3,000 (about US\$102) of application fee will be charged for every application in each certification. The fees for type testing vary by products and depend on the fee policies of the testing laboratories.

2. Type-Approved Batch Inspection (TABI) Scheme

Under this procedure, manufacturers or importers shall have their products type-tested by the BSMI or BSMI-designated testing laboratories, and file an application for Type Approval to the BSMI or its branches.

After manufacturers or importers obtain a Type Approval certificate, they are required to file an application for batch inspection to the BSMI each time before their products are released from the production premises or arrive at the port of entry. The BSMI will then review the application and the related documents while additional samples may be required for further testing if it is deemed necessary.

After the products have passed the inspection, they will be allowed to use the Commodity Inspection Mark with the letter 'T' and the identification number given by the BSMI. The application fee for the Type Approval is NT\$3,500, and a Type Approval certificate is valid for three years. The fees for type testing vary by products and depend on the fee policies of the testing laboratories.

*Further information on the two schemes can also be found on the BSMI website:

<https://www.bsmi.gov.tw/wSite/lp?ctNode=9768&CtUnit=4132&BaseDSD=7&mp=2>

Locations to apply for Type Testing:

The BSMI designated testing laboratories.

Locations to apply for Registration of Product Certification:

The BSMI or its branches.

Locations to apply for Batch Inspection:

1. Domestic manufacturers or consigned manufacturers: submit inspection applications to the BSMI or its branches according to the location of the production premises. If necessary, cross-jurisdictional inspections may be requested.
2. Importers or entrusted importers: apply to the BSMI or its branches for inspection according to the jurisdiction of the port of entry. If necessary, cross-jurisdictional inspections may be requested.

Time required for Registration of Product Certification:

14 working days. (This period does not include the time for corrective actions by the applicant due to deficiencies in the documents or samples. An additional 7 working days may be required if additional tests are necessary.)

Related requirements:

1. These Legal Inspection Requirements do not apply to products with any of the following characteristics:
 - (1) The rated input voltage is DC 5V, the product has a USB port, and it neither includes an AC to DC adaptor nor is powered by secondary cells/batteries;
 - (2) The product is powered solely by automotive power, has an automotive cigarette lighter plug, and is not powered by secondary cells/batteries;
 - (3) The product is powered solely by three-phase systems;
 - (4) The product is powered solely by primary batteries; or
 - (5) The product is a toy subject to legal inspection.
2. The revised inspection standards for the listed products shall take effect on the date of public announcement. The previous inspection standards for items 1 to 7 shall cease to apply as of 1 January 1 2028, and those for items 8 to 19 shall cease to apply as of 1 July 2028. Products that fall outside the scope of the revised inspection standards but were previously subject to inspection shall cease to be subject to inspection as of the date of public announcement.
3. Applications for TABI or RPC shall be processed in accordance with the following provisions as of the date of adoption:
 - (1) For items 1 to 7
 - For products that have been certified:

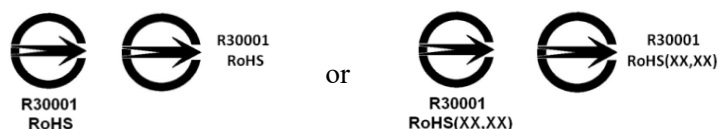
Certificate holders shall apply for certificate replacement before 31 December 2027 by submitting type test reports and technical documents in compliance with the revised inspection standards. The validity period of the replaced certificate shall remain unchanged. Failure to complete the replacement by the deadline shall result in:

 - ◆ Revocation of RPC under Article 42, Subparagraph 9 of the Commodity Inspection Act.
 - ◆ Revocation of TABI under Article 16, Subparagraph 1 of the Regulations Governing Type Approval of Commodities.
 - Certificate Extension Applicants: Holders of TABI or RPC certificates who meet the extension criteria under the relevant regulations:
 - ◆ Applications submitted before 31 December 2027 based on the previous standards shall remain valid until 31 December 2027.
 - ◆ Applications submitted before 31 December 2027 based on the revised standards shall be valid for three years commencing on the day after the expiry of the original certificate.
 - New Applicants:
 - ◆ Applications submitted before 31 December 2027 based on revised standards, including type test reports, technical documents, location and sample format of restricted substance labeling (Tables 1 and 2), and declaration of restricted substance content, shall be valid for three years from the date of issuance. Certificates issued under the previous standards shall remain valid until 31 December 2027.
 - ◆ Applications for newly listed rechargeable products submitted before 31 December 2027 shall be valid for three years starting 1 January 2028.
 - ◆ Applications submitted on or after 1 January 2028 shall include all required documents under the revised standards. Certificates shall be valid for three years from the date of issuance.
 - (2) For items 8 to 19
 - For products that have been certified:

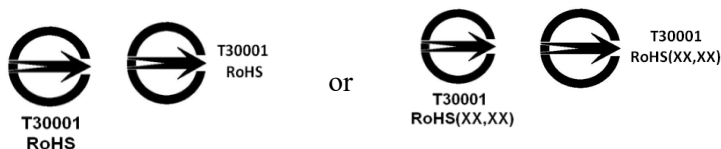
Certificate holders shall apply for certificate replacement before 30 June 2028 by submitting type test reports and technical documents in compliance with the revised inspection standards. The validity period of the replaced certificate shall remain unchanged. Failure to complete the replacement by the deadline shall result in:

 - ◆ Revocation of RPC under Article 42, Subparagraph 9 of the Commodity Inspection Act.

- ◆ Revocation of TABI under Article 16, Subparagraph 1 of the Regulations Governing Type Approval of Commodities.
 - Certificate Extension Applicants: Holders of TABI or RPC certificates who meet the extension criteria under the relevant regulations:
 - (1) Applications submitted before 30 June 2028 based on the previous standards shall remain valid until 30 June 2028.
 - (2) Applications submitted before 30 June 2028 based on the revised standards shall be valid for three years commencing on the day after the expiry of the original certificate.
 - New Applicants:
 - ◆ Applications submitted before 30 June 2028 based on revised standards, including type test reports, technical documents, location and sample format of restricted substance labeling (Tables 1 and 2), and declaration of restricted substance content, shall be valid for three years from the date of issuance. Certificates issued under the previous standards shall remain valid until 30 June 2028.
 - ◆ Applications for newly listed rechargeable products submitted before 30 June 2028 shall be valid for three years starting 1 July 2028.
 - ◆ Applications submitted on or after 1 July 2028 shall include all required documents under the revised standards. Certificates shall be valid for three years from the date of issuance.
4. Certificate holders shall clearly indicate the presence condition of the restricted substances on the product body, packaging, labels, or user manuals in accordance with Section 5 “Marking of presence” of CNS 15663. If a website is used to disclose the presence of restricted substances, the website address shall also be clearly indicated on the product body, packaging, labels or user manuals. In this case, the requirements of Section 5.3 of CNS 15663 regarding the placement of labeling shall not apply.
5. The Commodity Inspection Mark (hereinafter referred to as “the Mark”):
- (1) The Mark shall be printed by the certificate holders. The identification number of the Mark consists of “a letter (R or T),” “a designated code (5 digits),” and “the presence conditions of the restricted substances” (e.g., RoHS or RoHS(XX,XX)).
 - (2) The identification number shall be placed below or immediately next to the graphic symbol and “the presence conditions of the restricted substances” shall be indicated in the second row. Where the size of connectors for wiring or cord sets is too small to label information about RoHS or RoHS (XX) below or immediately next to the Mark, it may be labeled near the Mark.
 - (3) The Mark is not subject to a fixed size but shall be displayed proportionally in a prominent location on the product. It shall be made of materials not easily altered, with content clearly identifiable and indelible, and affixed permanently to the product.
 - (4) For RPC scheme, the examples of the Commodity Inspection Mark are listed below:



- (5) For TABI scheme, the examples of the Commodity Inspection Mark are listed below:



- (6) “RoHS” indicates “the content of restricted substance(s), other than exemptions stated in CNS 15663, does not exceed the reference percentage value of presence condition.
 “RoHS(XX,XX)” indicates the content of restricted substance(s) (element XX, element XX, ...), other than exemptions stated in CNS 15663, exceeds the reference percentage value of presence condition.
 Restricted substances: Pb, Cd, Hg, Cr⁺⁶, PBB, and PBDE.

Examples:

- RoHS (Pb) indicates that the percentage content of Pb in certain parts of the commodity exceeds the reference percentage value specified in Annex A to CNS 15663.
- RoHS (Cd, Cr⁺⁶, PBB) indicates that the percentage content of Cd, Cr⁺⁶, and PBB in certain parts of the commodity exceeds the respective reference percentage value specified in Annex A to CNS 15663.

- (7) For products newly added to the legal inspection scope that have obtained RPC prior to the date of adoption, the inspection mark may be self-printed and affixed in a prominent location on the product in accordance with the aforementioned provisions.
6. The C.C.C. Code listed in the table is for reference only. Products listed in the table must still complete the inspection procedures before being placed on the market, even if their C.C.C. Code is determined differently by the Customs Administration, Ministry of Finance, or the International Trade Administration, Ministry of Economic Affairs.
7. The import regulation code for the listed products is C02.
8. The technical documents required for type testing shall be submitted in accordance with the provisions of the Directions Governing Type Approval of Mechanical Commodities
9. The inspection standards of the products listed in the table shall be the version published in this announcement. If any updated version is available, the BSMI shall publish the implementation date of the updated version in a further announcement.
10. Commodities with combined features or multifunctional products shall comply with the respective inspection standards. Accessories that fall within the scope of mandatory inspection (excluding lithium batteries) shall also conform to the applicable inspection standards.

Table 1. Example of markings for the presence conditions of the restricted substances exceeds the reference percentage value of presence conditions

Equipment name: Handheld Electric Drills : XXX (Note)						
Unit	Restricted substances and its chemical symbols					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr ⁺⁶)	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Circuit board	Exceeding 0.1 wt %	○	○	○	○	○
Shell	○	○	Exceeding 0.1 wt %	○	○	Exceeding 0.1 wt %
Power cord	—	○	○	○	○	○
Accessory	—	○	○	○	○	○
<p>Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.</p> <p>Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.</p> <p>Note 3: The “—” indicates that the restricted substance corresponds to the exemption.</p>						

Note: If the position of the label clearly indicates the relationship with the product, the column for device name and model number may be omitted above the label. Additionally, if the label applies to multiple models, their numbers can be listed in the same column.

Table 2. Example of markings for the content of the restricted substances other than exemption do not exceed the reference percentage value of presence condition

Equipment name: Handheld Electric Drills : XXX (Note)						
Unit	Restricted substances and its chemical symbols					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr ⁺⁶)	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Circuit board	○	○	○	○	○	○
Shell	○	○	○	○	○	○
Power cord	—	○	○	○	○	○
Accessory	—	○	○	○	○	○
<p>Note 1: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.</p> <p>Note 2: The “—” indicates that the restricted substance corresponds to the exemption.</p>						

Note: If the position of the label clearly indicates the relationship with the product, the column for device name and model number may be omitted above the label. Additionally, if the label applies to multiple models, their numbers can be listed in the same column.