



**MERU
TECHNICAL TRAINING
INSTITUTE**

E-WASTE MANAGEMENT POLICY

MERU TECHNICAL TRAINING INSTITUTE

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INSTITUTE VISION, MISSION, CORE VALUES AND PHILOSOPHY

Vision

To be an International Centre of excellence in T.I.V.E.T

Mission

To provide TIVET for producing Dependable skilled human resource for commerce and industry

Motto

Technology for progress

Core Values

Quality Team

work

Professionalism

Innovation

Dynamism

Accountability

Integrity

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1.0 INTRODUCTION

Electronic waste, also known as e-waste, is electronic products that have outlived their usefulness and are due for disposal. These products have toxic components such as lead, mercury and cadmium. Improper disposal of electronic waste pollutes the environment with hazardous toxins, thereby causing widespread health problems and environmental degradation. With the increase of e-waste generation and the consequent threat of environmental degradation, there is need for a regulatory framework to mitigate this hazard.

MERU TECHNICAL TRAINING INSTITUTE utilizes a wide range of electronic products which results in e-waste. In addition, the Institute is one of the leading institutions of technical education that the government relies on to devise solutions to emerging challenges such as e-waste. Environmental contamination can be minimized by practicing safer and more responsible methods of e-waste disposal including recycling of the waste.

Establishment of e-waste management infrastructure, awareness and education, and human resource development resource mobilization are some of the key strategies encompassed by this policy document.

2.0 E-WASTE POLICY PRINCIPLES

The following are the guiding principles of the e-waste policy:

1. Environmental conservation – The Institute endeavors to ensure environmental conservation and protection from the effects of e-waste.
2. Safe disposal – The Institute recognizes the need to dispose e-waste in a manner That is safe and sound with respect to its staff, students, institutional operations and stakeholders.
3. Public awareness – The Institute acknowledges the importance of an informed society in the sustainable management of e-waste.
4. Policy framework – The Institute recognizes the need to establish clear guidelines on e-waste management.

3.0 OBJECTIVES OF THE POLICY

In developing this e-waste policy, MTTI seeks to meet the following objectives:

- i. To minimize e-waste generation.
- ii. To mobilize and sensitize stakeholders on the proper management and handling of e-waste on a sustainable basis.
- iii. To develop and implement a critical human resource base knowledgeable in handling e-waste.
- iv. To develop beneficial environmentally sound e-waste recycling.
- v. To provide guidance on the standards of electronic equipment that is imported into the Institute.

4.0 SCOPE OF THE POLICY

This policy covers MTTI main campus and other. It also covers all electronic equipment and devices and e-waste management operations on e-waste resultant from staff and students' activities within the Institute.

5.0 ELEMENTS OF THE POLICY

This policy covers and is informed by the following elements: legal framework, capacity building and environmentally sound management of e-waste, awareness and information dissemination and resource mobilization.

5.1 Legal Framework

The e-waste management policy is underpinned by environmental laws including the Environmental Management and Co-Ordination Act and 1999 and guideline for E-waste management in Kenya, December 2010

5.2 Capacity Building

E-waste management activities shall be strengthened through capacity building and continued efforts on research and development. The existing skills in the area of e-waste are limited, yet these skills are a prerequisite for successful protection against e-waste hazards for both the environment and human health. With this MTTI shall;

1. Facilitate development of e-waste management training modules to cover Technical maintenance, dismantling, and sustainable e-waste management, to provide for environmental and human health benefits.
2. Develop e-waste business models which will yield social benefits. These social benefits are, jobs and skills transfer from universities to central and local governments in partnership with the private sector.

5.3 Environmentally Sound Management of E-Waste

Environmentally sound recycling refers to recycling without leading to adverse impact on environment and health. The use of environmentally sound technologies needs to be encouraged in order to increase efficiency in processes, maximize recovery materials and conserve energy, thus reducing waste generation. The policy shall enable access to such technologies and make the informal stakeholders accountable.

Environmentally sound e-waste management shall be achieved through the following

Measures:

Technology for progress

1. E-waste sound recycling in authorized/centralized areas.
2. Ensure use of environmentally sound technologies to maximize recovery and minimize waste generation.
3. Appropriate technologies for recycling to be sourced.
4. Training and skills development to be encouraged for using environmentally safe operations in handling e-waste.

5.4 Awareness and Information Dissemination

There is low awareness on hazards of e-waste among the public stakeholders and nationally but extremely limited to the community surrounding the Institute. Community awareness campaigns on how to safely handle e-waste are non-existent. To this end, the Institute shall:

1. Develop a strategy for education efforts including partnerships with manufacturers/Retailers/recyclers.
2. Develop an e-waste resource web portal.
3. Organize annual events to promote e-waste awareness.

Awareness needs to be created among all stakeholders in the e-waste value chain. Training and awareness programmes need to be organized involving other stakeholders.

5.5 Resource Mobilization

The Institute shall provide resources for e-waste management as follows:

- 1) Increase the budgetary allocation to the initiative targeted at reducing e-waste risks;
- 2) put in place mechanisms for resource mobilization from development partners;
- 3) Provide the buildings, equipment and devices and other support systems for effective and efficient management of e-waste.

6.0 E-WASTE POLICY IMPLEMENTATION PLAN

6.1 E-waste Collection Plan

6.1.1 E-Waste Generated From Institute Operations

The ICT Directorate shall:

1. Ensure that e-waste is collected every quarter and kept in an appropriate storage pending the recommendations/approval of recommendations of the Disposal Committee.
2. Profile all e-waste generated at least once every year and prepare a report to the Disposal Committee including recommendations for disposal.
3. Execute the recommendations of the Disposal Committee and prepare a report for the Institute Management.

6.1.2 E-Waste Generated From Students Operations

The Institute shall, through the Deputy Principal (Academic Affairs), Registrar and the Dean of Students:

1. Organize yearly awareness forums for sensitization of students on e-waste.
2. Organize yearly voluntary surrender of e-waste through the students' Hostels Management.

6.2 Advisory Committee

The Institute shall constitute an e-waste advisory committee that shall:

1. Oversee implementation of this policy.
2. Develop procedures and work instructions for collection, sorting, dis-assembly, packaging, storage and disposal of e-waste.
3. Minimize the unintended consequences due to e-waste handling.
4. Encourage decisions consistent with the national policies.
5. Provide flexibility to adopt the changes required from time to time.
6. Review inputs from all stakeholders.
7. Monitor the implementation of this policy and advise Institute management as appropriate.
8. Advise review/improvement of this policy from time to time.

6.3 Research and Development Organization

Research and development shall be facilitated to carry out specific research to evolve cost effective technologies and effective adaptation of the best available technologies for e-waste management.

6.4 Staff and Skills

The Institute shall facilitate development of skills requisite for the implementation of e-waste management operations. The staff shall be provided with the requisite instructions and procedures, equipment and devices for e-waste management operations.

7.0 MONITORING, EVALUATION AND REVIEW STRATEGIES

7.1 Monitoring and Evaluation

Realization of the output of this policy shall require consistent monitoring and evaluation of the output indicators. The Government and any other relevant stakeholders will carry out monitoring and evaluation at different levels. A monitoring and evaluation framework shall be developed to ensure midterm review of the policy.

The policy implementation shall be reviewed through the performance contracting execution and reporting structures. A policy implementation plan shall be developed every financial year including actions, actors, time and resource plans.

7.2 Review of Policy

The policy shall be reviewed after every 5 years or earlier, as need arises.