



AMTEC

Agricultural Machinery Testing
and Evaluation Center



Vision

Excellence in testing and evaluation of agricultural and fisheries machinery in the Philippines, devoted to serving the agricultural and fishery sectors in the country towards development, with world-class facilities and international stature.

Mission

To actively contribute to the country's mechanization efforts by testing agricultural and fisheries machinery through quality laboratory and field tests, evaluating tests results using rational criteria, actively participating in the development of performance standards and test procedures, and conducting training and information dissemination to capacitate stakeholders

Outline of Presentation

- I. AMTEC History
- II. AMTEC's Mandate in Line with the AFMech Law of 2013
- III. AMTEC Quality Assurance System



AMTEC History

AMTEC :

the premier and reference
testing center of
agricultural and fisheries
machinery in the Philippines

Vision

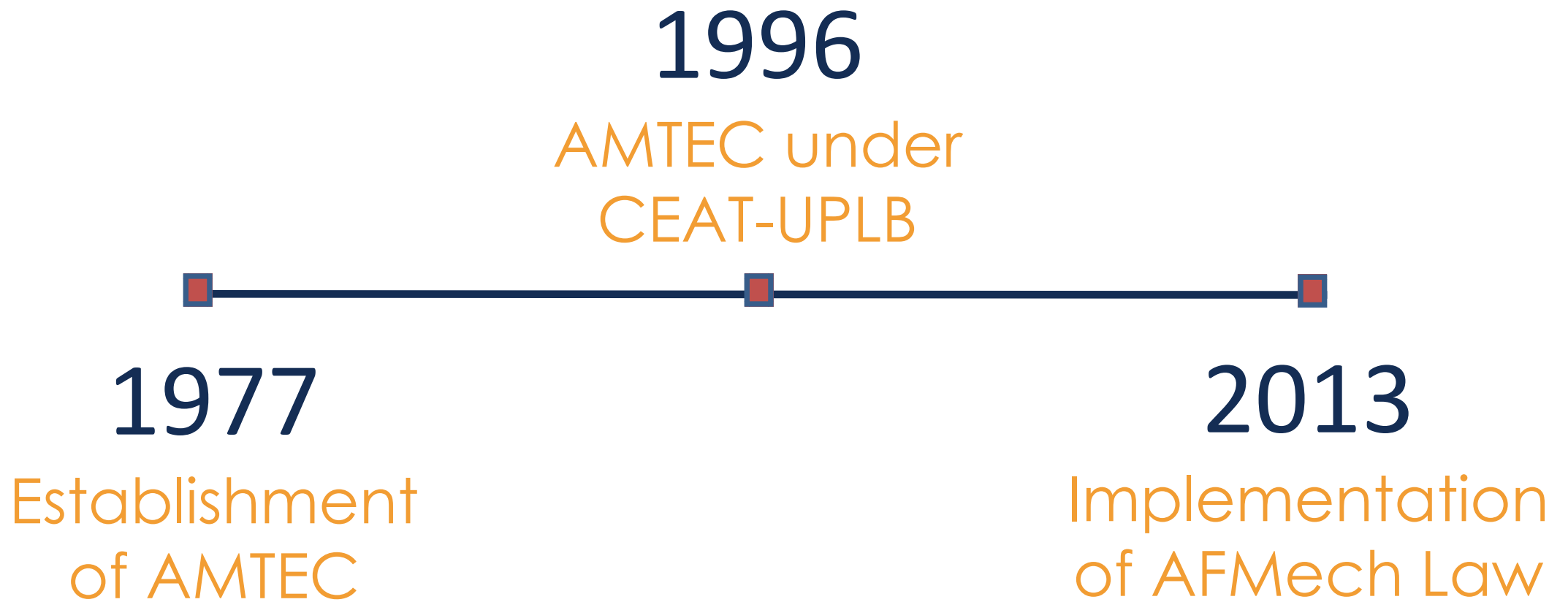
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History



History

11 July 1977

AMTEC was established by virtue of a **Memorandum of Agreement (MoA)** between the Department of Agriculture (DA) and the University of the Philippines Los Banos (UPLB.)

History

1996

AMTEC became under the full control of UPLB, with **CEAT as the implementing unit.**

History

2013

The **Agricultural and Fisheries Mechanization Law (RA 10601)** was signed designating AMTEC as the premier testing center of agricultural and fisheries machinery in the country.



AMTEC's
Mandate
in line with
AFMech Law
of 2013

Background

RA. 10601

“Agricultural and Fisheries Mechanization (AFMech) Law”

An act promoting agricultural and fisheries mechanization development in the country

Background

Under Section 2. Declaration of Policy.

(c) Ensure the quality and safety of machineries and equipment locally manufactured or imported by strengthening regulation through the development and enforcement of machinery and machine performance standards, regular testing and evaluation, registration, and the accreditation and classification of suppliers, assemblers and manufacturers to ensure compliance to prescribed quality standards;

NAFMP

Section 5: National Agri-fishery Mechanization Program

Objectives:

(c) Establish quality, safety and performance standards for agricultural and fisheries machinery;

NAFMP

Section 5: National Agri-fishery Mechanization Program

Objectives:

(d) Support the establishment of quality, safety and performance testing centers for the certification of agricultural and fisheries machinery in strategic localities in the country;

Mechanization RDE Agenda

The National Agricultural and Fisheries Mechanization RDE Agenda shall include, but not be limited to, the following:

(f) Continuous development of technical standards and testing procedures for quality agricultural machinery and components;

Testing and Evaluation

Sec. 18. Testing and Evaluation

Agricultural and fisheries machinery and equipment to be sold in the market shall pass through testing and evaluation by the Agricultural Machinery Testing and Evaluation Center (AMTEC) in accordance with the national policies and guidelines to be promulgated by the Secretary...

Testing and Evaluation

Sec. 18. Testing and Evaluation

...Specifically, before it can be assembled, manufactured and commercially sold in the market, the model of the machine and any modification thereof should be tested by the AMTEC and should pass the prescribed quality and performance standards...

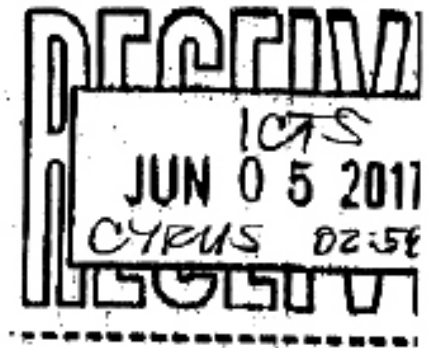
Testing and Evaluation

Sec. 18. Testing and Evaluation

...The regular testing and evaluation of machinery sold shall be undertaken by the AMTEC on new models and design. Field tests shall likewise be undertaken by the AMTEC to ensure consistent quality of test units as well as on the commercial units.



Republic of the Philippines
Department of Agriculture
OFFICE OF THE SECRETARY
Elliptical Road, Diliman
Quezon City 1100, Philippines



Department Circular No. 05
Series of 2017

**SUBJECT : NATIONAL GUIDELINES ON TESTING AND EVALUATION OF
AGRICULTURAL AND FISHERIES MACHINERY**

Pursuant to Section 18 of R.A. No. 10601, otherwise known as the Agricultural and Fisheries Mechanization Law and its Implementing Rules and Regulations, this National Guidelines on Testing and Evaluation of Agricultural and Fisheries Machinery is hereby promulgated and issued for guidance and enforcement of all government agencies, departments, bureaus, offices, or instrumentalities of the Government, private entities, farmers and fisherfolks.

Standards Development

Sec. 21. Standards Development and Enforcement

The DA, through the Bureau of Agriculture and Fisheries Product Standards (BAFPS), in coordination with the DTI, the DOST, the BoAE and the AMTEC, and in consultation with the accredited associations of farmers and fisherfolk, agricultural machinery assemblers, manufacturers and distributors and agricultural engineers shall develop standards specifications and test procedures of agricultural and fishery machinery and equipment. ...



AMTEC Quality Assurance System

Test Application
Tracking

Checking & finalization
of Test Reports

Acceptance &
Releasing of units

Calibration of some
instruments

Test Application Tracking

The **Test Application Form**, together with the specifications and/or Operator's Manual, shall be submitted by the applicant to secure a testing schedule.

A **unique application number** is designated for each test application, for easy monitoring.

In cases wherein the applicant wants to **follow up** on the progress of the testing of their machines, he/she can contact the AMTEC office providing the application number.

Checking and Finalization of Test Reports

Drafting of Report

Technical Review/ Proofreading

Technical Review

Review

Release

Assigned Test Engineer

Junior Engineering Associate

Senior Engineer

Director

Document Control Officer

Acceptance and Releasing of Units

In the acceptance of the machines, AMTEC follows **a specific checklist** to ensure the completeness and condition of the machines being delivered.

In the release of the machines, AMTEC conforms to another checklist before approving for the pull-out of machines. A Gate Pass is being handed out to the clienteles for entry to the UPLB premises.

Only the **authorized representative of the company** is allowed to pull out the machines from AMTEC premises.

Calibration of Some Instruments

The calibration of AMTEC equipment is always undertaken by a **third party, specifically the Department of Science and Technology, once a year** as an SOP for testing centers.

AMTEC equipment are calibrated:

- According to the recommendations of the manufacturer
- After any mechanical or electrical shock
- Periodically (annually)
- Before and after a critical measuring project
- Per requirements

Calibration aids in checking the **accuracy of the instrument** and in determining the **traceability of the measurement**.

Contact us!



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