

# TESDA CIRCULAR

<b>Subject: Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022</b>		<b>Page 1 of 17</b> <b>Number 143 series of 2020</b>
<b>Date Issued:</b> 26 November 2020	<b>Effectivity:</b> Immediately	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018

## I. Background and Rationale

- Section 2 of the Republic Act 7796 (TESDA Act of 194), declared the policy of the State “to provide relevant, accessible, high quality and efficient skills education and skills development in support of the development of high quality Filipino middle-level manpower responsive to and in accordance with Philippine goals and priorities.
- Section 14 of RA 7796 explicitly defines the role of TESDA as the “research and development arm of the government” in the pursuit of relevant researches and studies in aid of policy and decision making in technical education and skills development.
- TESDA as the national government authority in-charge of the Technical Vocational Education and Training (TVET) sector is responsible for the development of the National Technical Education and Skills Development Plan 2017-2022. Anchored in the PDP 2017-2022, the NTESDP 2017-2022 as the blueprint for the TVET sector provides policy direction, strategies and priority programs towards the production of productive and world-class skilled workers.
- The conduct of researches and studies is critical to support TESDA’s role of providing policy directions and achieving the targets identified in the NTESDP. The NTRA shall serve as a supporting document of the NTESDP in the development and review of policy decision-making and program development and implementation. The NTRA also helps to generate new knowledge in the identified priority research areas that are focused on issues that are relevant to the TVET sector. In addition, the NTRA provides guidance to stakeholders in the conduct of research and use of research results and recommendations.

## II. Objectives

The NTRA 2017-2022 is aimed at providing overall direction in the pursuit of research activities in aid of planning and policy decision making for the TVET sector.

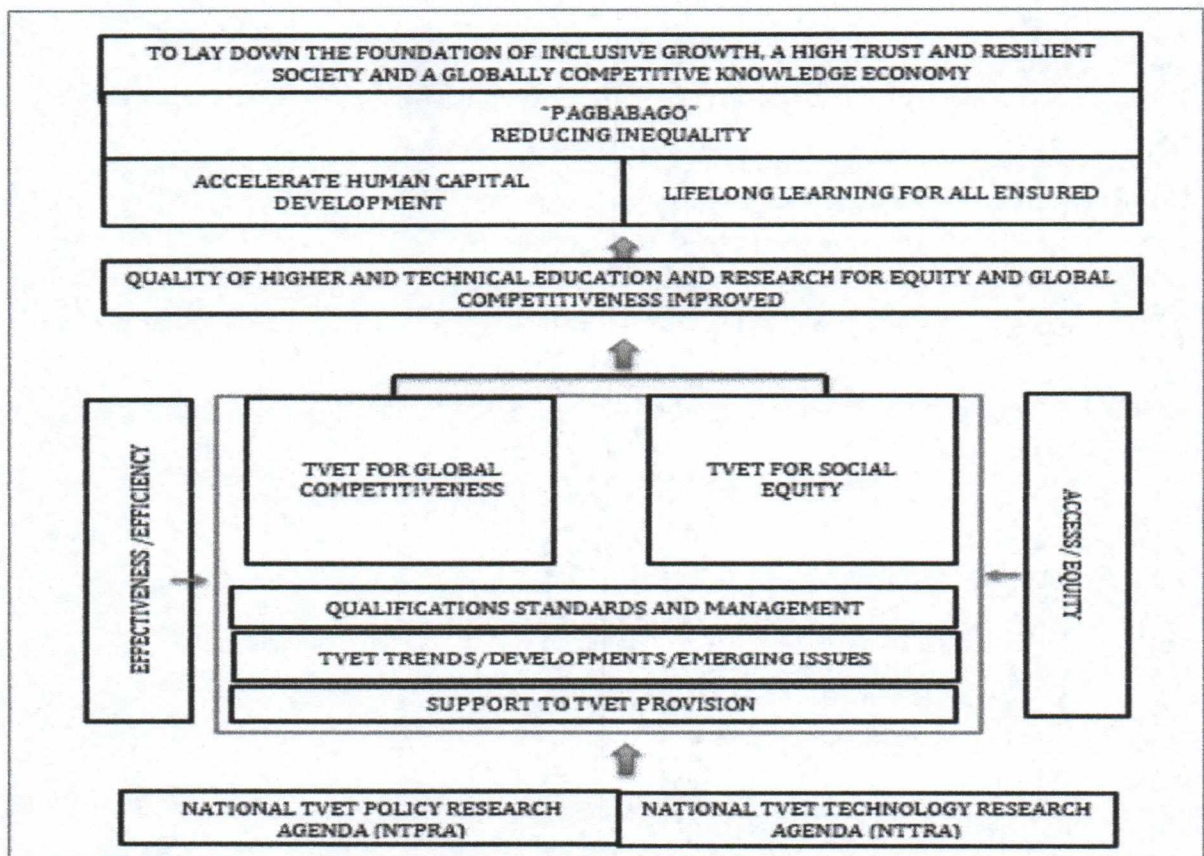
Specifically, the NTRA aims to achieve the following:

- A. To strengthen the role of TESDA as authority in TVET that will ensure access to relevant data/information and research-based policies;
- B. To guide the TESDA offices and researchers on the TVET priority researches and related topics to be undertaken in the next 6 years;
- C. To provide funding support to TESDA offices, TESDA Technology Institutions and researchers who embarked researches/statistical studies/research innovations on TVET;
- D. To serve as an advocacy and promotional programs to develop the culture of research among TVET practitioners and stakeholders;
- E. To strengthen and maximize TESDA’s linkages and networking system through readily available research topics for collaborative and partnerships undertakings;



<b>Subject: Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022</b>		<b>Page <u>2</u> of <u>17</u></b> <b>Number <u>143</u> series of 2020</b>
<b>Date Issued:</b> <b>26 November 2020</b>	<b>Effectivity:</b> <b>Immediately</b>	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018
<p>F. To support policy and program initiatives that will ensure access to quality TVET technology researches in the country;</p> <p>G. To strengthen the role of TESDA as an authority in TVET through the management, promotion and conduct of relevant TVET technology researches; and</p> <p>H. To generate, through a scientific process, technology-related knowledge and information that will serve as inputs for various activities such as training and assessment, creation of employment opportunities, identification of new and emerging competencies and enhancement of TVET programs.</p> <p><b>III. Definition of Terms</b></p> <p>A. TVET Policy Research – is a research or study that pertains to the analysis, comparison, assessment or evaluation of policies, programs, procedures, processes or strategies in the TVET Sector. (adapted from <a href="http://betterthesis.dk/research-methods/lesson-3-poplicyresearch">http://betterthesis.dk/research-methods/lesson-3-poplicyresearch</a>)</p> <p>B. TVET Technology Research – refers to applied research focused on studying new, advance and emerging technology that would eventually lead to innovation and development of solutions that can aid TVET instructional delivery</p> <p><b>IV. NTRA Research Framework</b></p> <ul style="list-style-type: none"> <li>▪ As support to the NTESDP 2017-2022 goal of developing productive and world class workforce, the NTRA 2017-2022 shall be anchored on TESDA's two-pronged strategy in Poverty Reduction: TVET for global competitiveness and TVET for social equity. TVET is recognized to contribute in both economic growth and social equity by providing productive and employable skills needed by the industries, the communities and the individuals.</li> <li>▪ As the authority in TVET, the NTRA shall also be developed within the ambit of further improving efficiency, effectiveness, access and equity in TVET.</li> <li>▪ The NTRA 2017-2022 shall be comprised of two (2) areas: <ul style="list-style-type: none"> <li>✓ National TVET Policy Research Agenda (NTPRA)</li> <li>✓ National TVET Technology Research Agenda (NTTRA)</li> </ul> </li> </ul>		

<b>Subject:</b> Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022		<b>Page</b> <u>3</u> <b>of</b> <u>17</u> <b>Number</b> <u>143</u> <b>series of</b> 2020
<b>Date Issued:</b> 26 November 2020	<b>Effectivity:</b> Immediately	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018



## V. Methodology in the Identification of Research Areas for TVET

Research areas were identified based on the following:

- NTPRA
  - ✓ Review of researches conducted based on the 2012-2014 NTRA
  - ✓ TVET for Poverty Reduction: Supporting the Development Agenda of the President
  - ✓ NTESDP 2017-2022 Framework
  - ✓ Government priorities/directives
- NTTRA (Details of the TVET Technology Research Framework Process is in Annex A)
  - ✓ The technology research offers a very broad range of choices for the would-be researcher, identifying areas for research shall be based on the Key Employment Generator (KEG) whenever applicable as identified by the Department of Labor and Employment (DOLE) in its updated study titled Project Jobs Fit: DOLE 2020 Vision.
  - ✓ Review of researches conducted based on the 2012-2014 NTRA
  - ✓ Key Employment Generators as identified in the NTESDP 2017-2022
  - ✓ Other government priorities/directives



<b>Subject: Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022</b>		<b>Page 4 of 17</b> <b>Number 143 series of 2020</b>
<b>Date Issued:</b> 26 November 2020	<b>Effectivity:</b> Immediately	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018

#### A. National TVET Policy Research Priority Areas

The research priority areas are grouped into five. Except for a few topical areas, the groupings may not be exclusive but rather inter-connected since all these research areas are meant to further improve TESDA's mandate of providing quality TVET provisions towards developing productive and world class Filipino workforce.

Research Area	Possible Topics
<p><b>TVET for Global Competitiveness</b></p> <p>Researches in this area covers topics in relation to addressing and improving the competitiveness of the country's workforce in priority industries and services sectors in order to attain sustainable and inclusive growth. Research activities in relation to benchmarking and assessment against international standards, adaptation of the most recent technologies and innovations, and conformity with the demands of the industries are some examples that can be pursued in this research priority area.</p>	<ul style="list-style-type: none"> <li>• Assessment of Qualifications in TVET Track: Employment and Education Transition to Higher Education</li> <li>• Comparative Assessment/ Competitiveness of TVET institutions</li> <li>• Alignment of TVET credits to CHED/Credit transfer to HE</li> <li>• Alignment of Core Competencies to Technology Subjects of HE</li> <li>• Benchmarking</li> <li>• International on-the-job training (OJT) (for Trainees in Diploma Programs)</li> <li>• Internationalization of TVET</li> <li>• Industrial Revolution: Its Implications to TVET</li> <li>• Polytechnics</li> <li>• Strengthening of 3-year Diploma Program</li> <li>• Future of Work</li> <li>• Innovation Center: How does it link to Centexes</li> <li>• Curriculum <ul style="list-style-type: none"> <li>➢ Application (Teaching) of Competency-based Curriculum</li> <li>➢ Integration of Life Skills for Employability to TVET Curriculum</li> </ul> </li> <li>• Enhancing Filipino's Global Competitiveness (Curriculum, Trainers, Equipment, Facilities)</li> <li>• Industry Study on Selected Sectors</li> <li>• Technology Research</li> <li>• Linkages with State Universities and Colleges (SUCs) and Local Universities and Colleges (LUCs)</li> <li>• Enterprise-based Training <ul style="list-style-type: none"> <li>➢ Dual Training System</li> <li>➢ Apprenticeship</li> <li>➢ Acceptability of Industries to Enterprise-based Programs (apprenticeship and DTS)</li> </ul> </li> </ul>



<b>Subject: Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022</b>		<b>Page <u>5</u> of <u>17</u></b> <b>Number <u>143</u> series of 2020</b>
<b>Date Issued:</b> 26 November 2020	<b>Effectivity:</b> Immediately	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018
		<ul style="list-style-type: none"> <li>➤ Study on Apprenticeship/Learnership Programs vis-à-vis DOLE Seminar Program</li> <li>• Application (Teaching) of Competency-based Curriculum</li> <li>• PQA and ISO Certification and APACC Accreditation <ul style="list-style-type: none"> <li>➤ Impact on the Employability and Global Competitiveness of Filipino Workers</li> <li>➤ Impact on Global Recognition of Filipino Workers as Gauged by Income</li> </ul> </li> <li>• Qualitative Study on the Absorptive Capacity of TVET Institutions</li> </ul>
<p><b>TVET for Social Equity</b></p> <p>Researches in this area covers topics in relation to addressing and improving the participation of those who are socially excluded and displaced (such as the informal workers, indigenous peoples, farmers, fisherfolks, drug dependents, rebel returnees, women victims of abuse and human trafficking, returning OFWs, persons with disabilities (PWDs), solo parents, women and young mothers, senior citizen, among others) into the workforce, as well as addressing the disparities and uneven development across regions, provinces and sectors.</p>	<ul style="list-style-type: none"> <li>• TVET Mapping/ Segmentation of TVET Clients for more precise and more focused TVET Program intervention</li> <li>• Inventory of MSMEs with Training Programs</li> <li>• Inventory of LGU Training Programs</li> <li>• TNA of special groups/TVET clients</li> <li>• Women in TVET</li> </ul>	
<p><b>Qualifications Standards and Management</b></p> <p>Researches in this area covers topics in relation to the implementation of TESDA's programs and services, specifically on the competency standards development, assessment and certification programs.</p>	<ul style="list-style-type: none"> <li>• Assessment of Assessment and Certification Program of TESDA <ul style="list-style-type: none"> <li>➤ Impact and Implementation</li> <li>➤ Revisiting TESDA's role in Assessment and Certification: Accreditation of Assessment Center, Assessors and Assignment of TESDA Representatives, Printing/Reproduction of CATs</li> <li>➤ Assessment Centers (Effectiveness)</li> </ul> </li> <li>• Valuation of National Certificates from the Employers' Perspective/Acceptability of NC in Hiring Workers for Private Establishments</li> <li>• Evaluation of Training Regulation (i.e. relevance, currency, utilization, etc.)</li> <li>• Review of training cost</li> </ul>	



<b>Subject: Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022</b>		<b>Page <u>6</u> of <u>17</u></b> <b>Number <u>143</u> series of 2020</b>
<b>Date Issued: 26 November 2020</b>	<b>Effectivity: Immediately</b>	<b>Supersedes: TESDA Circular No. 048 s. 2017 and No. 078 s. 2018</b>
<p><b>TVET Trends/Developments/Issues</b></p> <p>Researches in this area covers topics about how global and local trends, developments and issues which impact TVET.</p>	<ul style="list-style-type: none"> <li>• K to 12 <ul style="list-style-type: none"> <li>➢ Its Impact to TVET Institutions</li> <li>➢ Impact of TVET Track in SHS on Enrolment in TVET Programs</li> <li>➢ Trend of K to 12 Track that proceeded to TVET courses</li> <li>➢ Impact of SHS to TVET Bundled Programs</li> </ul> </li> <li>• Firms/Employers Readiness on Levy System</li> <li>• Inventory and Formulation of Green Skills in Support to DENR and Climate Change Adaptation and Mitigation</li> <li>• Philippine Qualifications Framework <ul style="list-style-type: none"> <li>➢ Philippine Curriculum Alignment</li> <li>➢ Seamless Education</li> <li>➢ Dichotomizing Technical Education and Skills Training</li> <li>➢ Pay Scale by Level</li> </ul> </li> <li>• Industry Boards/Industry Skills Training Councils</li> <li>• Performance Evaluation of TESD Partners in the Implementation, Monitoring and Evaluation of TESD Programs in the NTESDP 2011-2016, CGAP and other TESD-related National Activities</li> <li>• TNA of TESD Committee Members</li> </ul>	
<p><b>Support to TVET Provision</b></p> <p>Researches in this area covers topics in relation to addressing quality and relevance of training provisions and support programs services of TESDA, as well as develop capacity of the TVET providers and partners, financing and TVET investments.</p>	<ul style="list-style-type: none"> <li>• Employability and Productivity of TVET graduates <ul style="list-style-type: none"> <li>➢ Impact Evaluation of Scholarship Programs (TWSP, STEP, PESFA, BUB)</li> <li>➢ Impact Evaluation of STEP to Self Employment of Beneficiaries</li> <li>➢ Assessment of Overseas Employment of TVET Graduates</li> </ul> </li> <li>• Study on Trainers Profile and Trainers' Requirements/Issues and Concerns of TVET Trainers and Assessors</li> <li>• TVET Institutions <ul style="list-style-type: none"> <li>➢ Inventory of TVET institutions</li> <li>➢ Assessment of TTIs and Centexes, Comparative Assessment of TVET Programs of Centexes</li> <li>➢ Inventory and Assessment of Income Generating Projects of TTI</li> </ul> </li> <li>• TVET Financing</li> </ul>	



<b>Subject: Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022</b>		<b>Page <u>7</u> of <u>17</u></b> <b>Number <u>143</u> series of 2020</b>
<b>Date Issued:</b> 26 November 2020	<b>Effectivity:</b> Immediately	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018

	<ul style="list-style-type: none"> <li>➤ TVET Expenditures in the Philippines</li> <li>➤ Return on Investments in TVET</li> <li>• Relevance and Effectiveness of Career Guidance in TVET <ul style="list-style-type: none"> <li>➤ (YP4SC) as an Entry Requirements in TTIS</li> <li>➤ Blue Desks</li> </ul> </li> <li>• Assessment of TVET training programs /Training Delivery Modes <ul style="list-style-type: none"> <li>➤ Comparative Assessment of: Enterprise-based Training, Community-based; and Institutional Training Delivery</li> </ul> </li> <li>• Employers' Satisfaction Study</li> <li>• Ladderized education</li> <li>• Documentation of best practices</li> <li>• Linking TVET researches to other higher education researches (interesting topics such as programs on poverty reduction, etc.)</li> <li>• Current Trends related to TVET</li> </ul>
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#### **B. National TVET Technology Research Priority Areas**

For technology research, the dimension of research can be any of the following:

- Discovery, development and/or verification of new technology areas;
- Innovations to support local economic and/or socio-economic growth/development;
- Innovation on TVET curriculum, delivery, and assessment;
- Preparation for the Fourth Industrial Revolution; and
- Current Trends in TVET

The focus of the research can be in any of the priority sectors:

- Tourism;
- Construction;
- ICT and Information Technology - Business Process Management (IT-BPM);
- Transport, Communication, and Storage;
- Agriculture, Fishery, and Forestry;
- Manufacturing (Electronics, Food Manufacturing, etc);
- Health and Wellness; and
- Creative Industry

#### **VI. Stakeholders and Users of NTRA**

- There are two major users of the results of the research studies from the NTRA: the TESDA Board, policymaking body of TVET and the TESDA management as the government agency in charge to oversee TVET in the country.



<b>Subject: Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022</b>		<b>Page <u>8</u> of <u>17</u></b> <b>Number <u>143</u> series of 2020</b>
<b>Date Issued:</b> 26 November 2020	<b>Effectivity:</b> Immediately	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018
<ul style="list-style-type: none"> <li>• The list of research areas as indicated in the 2017-2022 NTRA on the other hand, shall provide a set of menu on the topic/s be conducted for the period. Stakeholders of TVET can be categorized into the following groups: <ul style="list-style-type: none"> <li>✓ TESDA Management, Central, Regional/Provincial and TESDA Technology Institutions (TTIs)</li> <li>✓ TESDA officials and staff who are currently enrolled</li> <li>✓ TVET research partners</li> <li>✓ Researchers, i.e., students</li> </ul> </li> </ul>		
<p><b>VII. Uses of NTRA and Its Outputs</b></p> <ul style="list-style-type: none"> <li>• Provides a list of research areas/topics for 2017-2022 wherein the researchers can choose from</li> <li>• Basis for funding support from the TESDA Development Fund, regular fund, local and international partnership research fund</li> <li>• Provides an awarding mechanism to Regions/TESDA staff for good researches</li> <li>• Improve access to research - Relevant, timely information on TVET researches will be made accessible to prospective users</li> <li>• Capacitated human resource – increase number of researchers and research activities</li> <li>• Culture of research of TESDA COROPOTI developed</li> <li>• Partnership on research undertakings with educational institutions forged</li> <li>• Policy recommendations based on results of researches for policy decisions of the management</li> </ul>		
<p><b>VIII. Implementation Arrangement</b></p> <p>Objectives:</p> <ul style="list-style-type: none"> <li>▪ To provide guidance in the management and conduct of research initiatives at the COROPOTI and technical training institutions</li> <li>▪ To provide instructions in the provision and availment of research grants for qualified proponents</li> </ul> <p>A. National Secretariat/Oversight Teams</p> <p>The Planning Office shall serve as the oversight office or clearing house for all TVET policy researches and studies, while the National Institute of Technical Education and Skills Development (NITESD) shall serve as the oversight office or clearing house for all TVET technology researches and studies.</p> <p>B. Annual TVET Research Priority Areas</p> <p>All researches and studies to be conducted by TESDA Offices and TTIs shall be within the parameters of the NTRA. To ensure that results of researches are advocated and acted upon, annual research priorities shall be prepared and its implementation shall be monitored.</p>		



<b>Subject: Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022</b>		<b>Page <u>9</u> of <u>17</u></b> <b>Number <u>143</u> series of 2020</b>
<b>Date Issued:</b> 26 November 2020	<b>Effectivity:</b> Immediately	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018

#### **C. National NTRA Review Team**

- The National NTRA Review Team shall be composed of the following:

Chairperson : TESDA Board Direction Setting Committee Chairperson

Members : 

- Executive Director, Planning Office
- Executive Director, NITESD
- TVET/Content Experts
- Executive Director, Financial Management Service
- Concerned Executive Director on the theme covered by the research proposal

- The National Review Team shall be responsible for the review and recommendation of research proposals to be prioritized for funding.
- The DDG for Policies and Planning shall be the approving authority.
- The National Review Team shall invite additional members depending on the need for expertise on certain aspects of the research proposal.
- The identification of the TVET/content expert shall be based on the topic/study to be evaluated.
- The TVET/content expert shall be invited as resource person.
- The member from the Financial Management and Service shall evaluate the budgetary requirements of the researches submitted in reference to the government accounting/auditing rules and regulations and the availability of fund.

#### **D. Regional Review Team**

- The TESDA Regional Offices shall also create their respective review team responsible to review and endorse research proposals to the National NTRA Review Team.

Chairperson : Regional Director

Members : Provincial Office Director Planning Shepherd  
Chief of Regional Operation Division  
RTESDC Member

- The Regional Operation Division (ROD) shall provide technical and administrative to the Regional NTRA Team.

#### **E. NTRA Proposal Submission**

##### **a. Call for Proposals**

- The NTRA Secretariat shall issue a periodic call for research proposal at least once a year, or as deemed necessary by the review teams or the funding source. The Call for Proposals which will serve as reference of the interested proponents of the study shall indicate the date, process and research grant implementation guidelines.



<b>Subject: Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022</b>		<b>Page <u>10</u> of <u>17</u></b> <b>Number <u>143</u> series of 2020</b>
<b>Date Issued:</b> 26 November 2020	<b>Effectivity:</b> Immediately	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018
<ul style="list-style-type: none"> <li>• Specific target topics from among the list of topics shall be identified in every round of call for proposal, which shall be based on the current trends/situation and priorities of the government.</li> <li>• The TESDA ROPOTI shall promote or disseminate the call for proposals to their respective TVIs.</li> </ul> <p>b. Submission Flow</p> <ul style="list-style-type: none"> <li>• The submission of research proposals shall follow the flow chart indicated below:</li> </ul> <div style="text-align: center;"> <pre> graph TD     A[Research Proposals from Proponents] --&gt; B[TESDA Regional Office (where they belong)]     B --&gt; C[Regional Review Team Evaluation]     C --&gt; D[Central Office (Planning Office as Secretariat)]     D --&gt; E[National Review Team Evaluation]     E --&gt; F[Office of the Deputy Director General for Policies and Planning (approved proposals for funding)] </pre> </div> <ul style="list-style-type: none"> <li>• All technology research proposals shall be validated with other National Government Agencies (NGAs) that gives research grants. This is to ensure that the shortlisted researches will not receive multiple government support funds for the same research activity by the same proponent.</li> </ul> <p>c. Eligible Proponents</p> <p>The proponent of a research proposal may be an individual/student, a government agency, local government unit (LGU) or a private organization.</p> <ul style="list-style-type: none"> <li>▪ Individuals, local government units, private organizations, national government agencies may submit their research proposals to the TESDA Regional Office where they are located.</li> </ul>		



<b>Subject: Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022</b>		<b>Page <u>11</u> of <u>17</u></b> <b>Number <u>143</u> series of 2020</b>
<b>Date Issued:</b> 26 November 2020	<b>Effectivity:</b> Immediately	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018

- All TVET learners who wish to avail of funding support from TESDA are also required to submit their thesis/research proposals to the TESDA Regional Office where they are located.
- All TESDA employees who are taking their baccalaureate program, graduate studies (masters or doctorate) who wish to avail of funding support from TESDA may also submit their thesis/research proposals to the TESDA Regional Office where they are located.
- Interested employees from the Central Office shall submit their proposals to the TESDA Region – NCR.
- All research proposals should follow the format prescribed in Annex B.

d. Evaluation and Review Criteria

The proposals will be evaluated based on the following criteria:

▪ NTPRA

Criteria	Description/Objectives	Weight
Relevance	The proposed research topic should be within the research priority areas/topics covered in the NTRA 2017-2022.	20
Urgency	Consistency with the NTRA priority research areas, the proposal should explicitly provide indication on the dependency of succeeding activities/projects with the research undertaking and results of such.	10
Completeness	The proposal should follow the template and contain complete information.	10
Soundness of research design	The research design should present logical connections between the research problem, objectives and methodology. The manner on the data gathering should be well-defined. The analysis should be designed towards achieving the sets of objectives.	20
Viability of the proposal	The research proposal should be doable. It should provide strong indication that it will be completed as scheduled.	15
Magnitude	This refers to the magnitude (wide audience/clientele or replicable to other areas) of its impact in the development/ implementation of the results of the study.	15
Budgetary requirements	The budget is justifiable and presented itemized breakdown of the total cost of the study.	10

<b>Subject: Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022</b>		<b>Page 12 of 17</b> <b>Number 143 series of 2020</b>
<b>Date Issued:</b> 26 November 2020	<b>Effectivity:</b> Immediately	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018

<b>Grand Total</b>	<b>100</b>
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- NTTRA
- Regional NTTRA Evaluation Criteria

No.	Criteria	Description	Weighted Score	Scoring Guide				Score
				1-3	4-6	7-9	10	
I.	<b>Innovativeness</b>	How innovative is the idea? Is the solution according to an unconventional approach or thinking? Indicates the significance of the research and uniqueness of approach in terms of solutions hypothesized.	20%	Minimal changes to existing technology.	Integrating new feature/ component into existing technology on the market or creating differentiated versions of the same technology.	Integrating several features/ components into existing technology on the market or creating differentiated versions of the same technology either in the usage of materials or process.	One of a kind approach. Highest level of innovation which involves technology or process that no one has thought of. Out of the box thinking or outstanding approach.	
II.	<b>Market Potential</b>	It is the impact of the research to existing market challenges at an affordable cost. It can be used across Institutions/ Industries.	20%	Address a simple challenge in an industry /institution.	Can address several challenges in an industry/ institution.	Can address challenges in several industry sectors/group of institutions with positive benefit-cost ratio.	Can address challenges in several industry sectors/group of institutions with atleast 5% benefit-cost ratio.	
III.	<b>Technical Feasibility</b>	It refers to the complexity of the process that may impact time and cost of the research or development.	20%	Feasible with multiple identified constraints and has too many hypothetical components and integration of idea with high possibility of	Feasible with multiple identified constraints or has too many hypothetical components or integration of idea that may affect time and cost.	Feasible but may have constraint in the development, yet time and cost will not be affected.	Smooth plan with no indication of possible constraint and can be implemented within the specified timeframe and cost.	



<b>Subject:</b> Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022	<b>Page</b> <u>13</u> <b>of</b> <u>17</u> <b>Number</b> <u>143</u> <b>series of 2020</b>
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<b>Date Issued:</b> 26 November 2020	<b>Effectivity:</b> Immediately	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018
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				affecting time and cost.				
IV.	<b>Availability of Resources</b>	It refers to the sufficiency and affordability of the supplies and materials to be used in the development of the technical research.	20%	There is an indication in the proposal that the proponents are qualified researcher/s. However, the materials are not readily available.	There is an indication in the proposal that the proponents are qualified researcher/s. However, they only have access to either the materials or needed equipment.	There is an indication in the proposal that the proponents are qualified researcher/s and they have access to materials and needed equipment.	There is an indication in the proposal that the proponents are qualified researcher/s, they have access to materials and equipment needed and they have reliable source of supplementary/emergency fund.	
V.	Scope	This criterion refers to the coverage of the technology research in assisting the institutions and the communities within a region in solving their existing problems/challenges.	20%	Address the problem/challenges within the institution	Address the problems/challenges of institution and a community within the province	Address the problem/challenges of several institutions/communities within a province	Address the problems/challenges of institutions/communities in several provinces within the region	

▪ National NTTRA Evaluation Criteria

No.	Criteria	Description	Weighted Score	Scoring Guide				Score
				1-3	4-6	7-9	10	
I.	<b>Relevance</b>	The technology research is related to the priority	25%	Related 1 priority sector	Related to 2 priority sectors	Related to 3 priority sectors	Related to more than 3 priority sectors	



		sectors indicated in this circular.						
II.	<b>Scope</b>	This criterion refers to the coverage of the technology research in assisting the institutions/community within a geographical area in solving their existing problems/challenges.	25%	Address the problem within the institution	Address the problem of the institution/community within the region	Address the problem of the institutions/communities in different regions	Address the problem identified and recognized in the national level	
III.	<b>Responsible Business</b>	This refers to the responsible impact of individual, community, environment, and/or green skills.	25%	The study/research impacts any one of the following: -individual - community/minority group -environment -green skills	The study/research impacts any two of the following: -individual - community/minority group -environment -green skills	The study/research impacts any three of the following: -individual - community/minority group -environment -green skills	The study/research impacts all of the following: -individual - community/minority group -environment -green skills	
IV.	<b>Cost-benefit Potential</b>	It refers to the delivery of the net present value of the proposed research	25%	The research proposal indicates a positive, clear yet with some unrealistic aspects in the cost-benefit ratio.	The research proposal indicates a positive, realistic yet with minor unclear aspects on cost-benefit ratio.	The research proposal indicates a positive, clear, and realistic cost-benefit ratio.	The research proposal indicates a highly positive, clear, and realistic cost-benefit ratio.	

e. Rating of the Proposal

- Based on the criteria, the average score shall be computed from the individual scores of the members of the Regional/ National Review Team. The Regional/ National Review Team shall discuss the results and agree on the final score.
- The proposal to be endorsed for approval and funding should have at least a score of 70.
- Research proposals that will not meet the required score may be revised by the proponent based on the comments/suggestions by the Regional Review Team and resubmit for

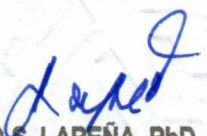



<b>Subject: Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022</b>		<b>Page <u>15</u> of <u>17</u></b> <b>Number <u>143</u> series of 2020</b>
<b>Date Issued: 26 November 2020</b>	<b>Effectivity: Immediately</b>	<b>Supersedes: TESDA Circular No. 048 s. 2017 and No. 078 s. 2018</b>
<p>consideration, provided that the proposal must be submitted to the central office on or before the deadline.</p> <ul style="list-style-type: none"> <li>▪ For NTPRA, Research Proposal Evaluation Forms (Annex C1 and C2) shall be used by the review teams for the rating of the policy research proposals.</li> <li>▪ For NTTRA, the Regional NTTRA Evaluation Criteria (Annex C3) shall be used in the selection of technology research proposals and the National NTTRA Evaluation Criteria (Annex C4) shall be used in the prioritization for funding.</li> </ul> <p>f. Notification of Results</p> <ul style="list-style-type: none"> <li>• The National Secretariat will send a notification letter of the results to the proponent.</li> <li>• For approved proposals, the secretariat will conduct an orientation to brief the proponents on the requirements, roles and responsibilities of both the proponents and the concerned review teams.</li> </ul> <p><b>F. Strategies for Achieving the Objectives of Research Priorities</b></p> <p>To achieve the objectives of the NTRA, the following strategies will be adopted:</p> <ul style="list-style-type: none"> <li>• Publication of the NTRA at the TESDA Website and shared through TESDA's official social media pages;</li> <li>• Directing the researches of TESDA employees who are in their graduate courses to specific priorities;</li> <li>• Progressive project funding based on available funds and agreed schemes;</li> <li>• Incorporate a variety of funding options;</li> <li>• Adoption and utilization of the identified areas to research in foreign-assisted projects with research component;</li> <li>• Advocacy to government, academe and institutions to do researches under the NTRA;</li> <li>• Advocacy to TVIs to focus researches on the NTRA priority research areas.</li> </ul> <p><b>IX. Funding /Sources of Budget</b></p> <ul style="list-style-type: none"> <li>• All researches/studies to be funded by TESDA need to have their research proposals submitted to and reviewed by the NTRA review team, and approved by TESDA's Deputy Director General for Policies and Planning</li> <li>• Approved research proposal shall be funded under the TESDA Development Fund. The prevailing TDF Guidelines for the implementation of the NTRA shall be followed in granting the research grant.</li> <li>• The research grants shall be benchmarked with other research granting government agencies and or institutions in coordination with the FMS.</li> </ul> <p><b>X. Written Agreement</b></p> <p>In order to ensure that the research fund will be utilized based on approved work plan:</p> <ul style="list-style-type: none"> <li>• For Non-TESDA affiliated proponents/TESDA employees who will conduct the research outside his/her regular duties* - a Memorandum of Agreement (MOA) between TESDA and the grantee shall be executed. The MOA shall indicate the roles and responsibility of each party (TESDA and the grantee),</li> </ul>		



<b>Subject: Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022</b>		<b>Page <u>16</u> of <u>17</u></b> <b>Number <u>143</u> series of 2020</b>
<b>Date Issued:</b> 26 November 2020	<b>Effectivity:</b> Immediately	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018
<p>and the ownership of the intellectual property rights and the creation, in accordance with the TESDA's Policies and Guidelines on the Intellectual Property Rights.</p> <ul style="list-style-type: none"> <li>For TESDA employees who will conduct research as part of his/her regular duties, a commitment form shall be accomplished to be endorsed by the head of the office/units and signed by the approving authority.</li> </ul> <p><b>XI. Monitoring of the Implementation of the NTRA 2017-2022</b></p> <ul style="list-style-type: none"> <li>Monitoring of the implementation of the NTRA will be done on an annual basis in order to determine the extent of achievement of the target research priorities.</li> <li>All TESDA offices shall submit to the National Secretariat a list of researches/studies to be conducted on an annual basis for review and monitoring purposes, including copies of the report of research/study completed.</li> </ul> <p><b>XII. Intellectual Property</b></p> <p>Researches that will be funded under the NTRA shall be covered and follow the prevailing Intellectual Property Guidelines.</p> <p><b>XIII. Ancillary Support</b></p> <p>TESDA officials and staff who will be engaged in the review and monitoring of the implementation of the NTRA shall be provided with relevant training programs through the TESDA Development Institute.</p> <p><b>XIV. Submission and Acceptance</b></p> <p>Completed research must be submitted to the relevant review team. The Secretariat will conduct technical evaluation to determine the acceptability of the output. Submitted outputs with additional requirements, comments, and recommendations will be returned for revision. Final approved outputs will be submitted in soft (PDF) copy to the National Secretariat.</p> <p><b>XV. Dissemination and Utilization</b></p> <p>The following are some of the ways by which the researches may be disseminated and used:</p> <ol style="list-style-type: none"> <li>National, Regional and Provincial Research Conferences, Research Forums, Policy Forums</li> <li>A National TESD Research Forum/Conference shall be conducted to present and good researches submitted by the regions.</li> <li>Publication of Research Journals</li> <li>Development of policies, frameworks, programs, projects</li> </ol> <p><b>XVI. Archival</b></p> <ul style="list-style-type: none"> <li>All TESDA offices shall submit to National Secretariat a list of researches/studies to be conducted on an annual basis for review and monitoring purposes, including copies of the report of research/study completed.</li> </ul>		



<b>Subject:</b> Amended Guidelines on the Implementation of the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022		<b>Page</b> <u>17</u> of <u>17</u> <b>Number</b> <u>143</u> series of 2020
<b>Date Issued:</b>	<b>Effectivity:</b>	<b>Supersedes:</b> TESDA Circular No. 048 s. 2017 and No. 078 s. 2018
<ul style="list-style-type: none"> <li>An abstract of each research completed shall be prepared and immediately disseminated to all offices for information and reference. At the end of each year, the National Secretariat will publish a Research Journal which will contain the summary of all researches completed and submitted. The Research Journal will serve as reference and information guide to internal and external researchers.</li> </ul> <p><b>XVII. Effectivity</b></p> <p>This Circular shall take effect as indicated and shall supersede all other issuances inconsistent hereof.</p> <div style="text-align: right;">   </div> <p><b>SEC. ISIDRO S. LAPEÑA, PhD, CSEE</b> Director General <i>by</i></p>		



## National TVET Technology Research Agenda

### I. BACKGROUND:

The National Technical Education and Skills Development Plan (NTESDP) recognize the importance of sustaining research and development in support of effective TVET programs towards the development of 21<sup>st</sup> century skilled Filipino workforce.

Section 14 of RA 7796 explicitly defines the role of TESDA as the “research and development arm of the government” in the pursuit of relevant researches and studies in aid of policy and decision making in technical education and skills development. Within TESDA, the newly created office of the National Institute for TESD (NITESD), particularly the Technology Research and Development Division (TRDD), is tasked to oversee technology research in the TVET sector.

The **TREE** concept - Training, Research, Extension, and Entrepreneurship are areas of concern in delivering TESDA's mandate within the TESD sector. While training is at the forefront of the aforementioned elements, research is an equally critical concern of a TVI. In fact, it is an area for improvement in most TVIs. As part of its mandate, the NITESD through the Technology Research and Development Division (TRDD), shall oversee the management, promotion and conduct of technology researches by the TVIs.

### II. OBJECTIVES:

This document outlines the TVET technology research agenda that will guide the researchers in the conduct of TVET technology researches in the next five years. It describes in detail the background and drivers that led to the development of the agenda and highlights the need for a multidisciplinary and collaborative approach. This agenda take into consideration the key employment generators as identified by the Department of Labor and Employment (DOLE). Options shall be made available in view of maximizing flexibility, integrating of work and developing collaborations with research partners. This research agenda provides strategic direction on how effort and resources will be focused to ensure their alignment with the NTESD goals and objectives. Further, this will be used as basis for the development of a detailed research plan.

The National TVET Technology Research Agenda (NTTRA) 2017-2022 shall provide the overall direction in the pursuit of TVET technology research activities and in aid of policy and decision making in technical vocational education and skills development. Specifically, it aims to achieve the following:

1. To support policy and program initiatives that will ensure access to quality TVET technology researches in the country;
2. To strengthen the role of TESDA as an authority in TVET through the management, promotion and conduct of relevant TVET technology researches; and



3. To generate, through a scientific process, technology-related knowledge and information that will serve as inputs for various activities such as training and assessment, creation of employment opportunities, identification of new and emerging competencies and enhancement of TVET programs.

### **III. RESEARCH FRAMEWORK**

The NTTRA 2017-2022 supports the NTESDP 2017-2022 goal of developing productive and world class workforce. Through technology research, the following shall be undertaken to respond to requirements of the Plan:

#### **A. Development Goals/Objectives**

- Institutionalizing technology research and development in TESDA Technology Institutions (TTIs) and other TVET providers;
- Conducting capability build-up programs on TVET technology research and development; and
- Networking, linkaging and promoting the conduct of TVET technology research.

#### **B. Key Result Areas**

1. **Improved Access to TVET Technology Researches** - this describes the state where technology researches are available in all TTIs and other TVET providers for all clients. Relevant, timely information on TVET technology researches will be made accessible to prospective users.
2. **Capacitated Human Resource** – there is continuous staff development program for all those involved in the management and promotion of technology research for the TVET sector. Also, there is increased number of TVET trainers trained on the conduct of technology research, thereby increasing the technology research activities in the TTIs.
3. **Established Research Culture in TVET** – this is the environment where technology research for the TVET sector is efficiently managed, aggressively promoted and conducted in all TTIs.

#### **C. Strategic Directions**

- **TVET Support to New, Emerging and Advance Technologies** - the speed in which new technologies emerge constantly demand appropriate response from the TVET sector which TESDA needs to cope with. Where potential demands are high for a particular technology but current supply is



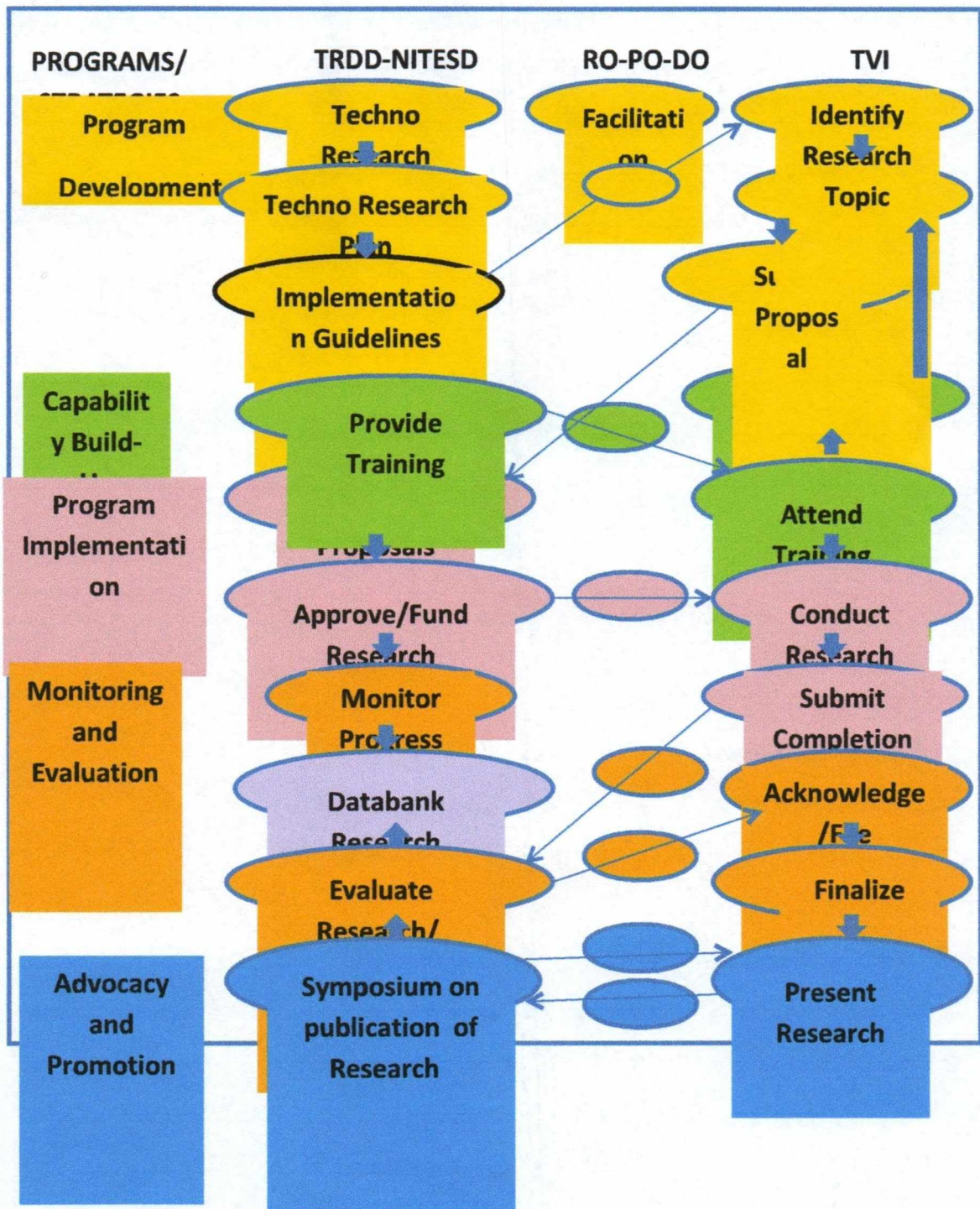
insufficient for various reasons (e.g. non-existent qualifications or disorganized sub-sector), initiatives may come from TESDA to effect appropriate responses in terms of specific skills required of the new technology. To arrive at the right response, technology researches can fast track identification of emerging competencies.

- **Enhancing Quality Assurance Mechanisms** - This would entail the utilization of quality systems, procedures and processes towards producing quality products and services. Results of technology researches as inputs to the development and review of competency standards shall be pursued to keep pace with the developments in technology and at the same time ensure adherence to defined norms and standards.

#### **IV. TVET Technology Research Framework Process**

This process flow indicates how TRDD-NITESD orchestrates institutional technology research. Key strategic approaches, interrelated as they are, are employed by TRDD in the form of program development, capability build-up, program implementation, monitoring and evaluation, advocacy and promotion, and database management.





The above enumerated six components are critical in their own right but they are all inter-connected. Progress in TVET technology research supports advances in TESD in such a way that new knowledge brings refinements to the monitoring and evaluation program; while updated databases will provide substantial information that can be used as inputs for decision and policy making. Each function requires an in-depth planning process to capture the issues and challenges. Hence, the TTIs must :

1. Prepare implementation/action plans for monitoring;



2. Establish a TVET technology research database;
3. Prepare a TVET technology research promotion and advocacy plan;
4. Prepare an Annual TVET Technology Research Priority Areas

All researches and studies to be conducted by TVIs shall be within the parameters of the NTTRA. To ensure that results of researches are advocated and acted upon, annual research priorities shall be prepared and its implementation shall be monitored.

1. The NITESD, shall serve as the oversight office or clearing house for all TVET technology researches and studies;
2. A review team, composed primarily of the Division Chiefs of the NITESD as permanent members and invited members depending on the need for expertise on certain aspects of the technology research proposal, shall take the lead in the review of each research proposal;
3. All offices shall submit to the NITESD a list of researches/studies to be conducted on an annual basis for review and monitoring purposes;
4. A copy of the report of research/study completed should be provided to the NITESD to serve as basis/inputs in aid of innovation, sharpened training delivery, curriculum, learning materials and mock-up development.
5. An abstract of each research completed shall be prepared and immediately disseminated to all offices for information and reference. At the end of each year, the NITESD will publish a Research Journal which will contain the summary of all researches completed and submitted to the NITESD. The Research Journal will serve as reference and information guide to internal and external researchers.

## V. RESEARCH PRIORITIES

Since technology research offers a very broad range of choices for the would-be researcher, identifying areas for research shall be based on the Key Employment Generator (KEG) whenever applicable as identified by the Department of Labor and Employment (DOLE) in its updated study titled Project Jobs Fit: DOLE 2020 Vision. Hence, the TVET technology researches shall be anchored in any of the following sectors:

SECTOR	PRIORITY AREAS
Agribusiness	<ul style="list-style-type: none"> <li>• coffee production,</li> <li>• organic farming,</li> <li>• oil and palm trees and rubber tree production,</li> <li>• biofuels,</li> <li>• biomass, and other high value crops,</li> </ul>



	<ul style="list-style-type: none"> <li>• genetically modified crops,</li> <li>• cattle breeding,</li> <li>• agricultural product processing technology,</li> <li>• food manufacturing</li> </ul>
Construction	<ul style="list-style-type: none"> <li>• Drone monitoring and modeling,</li> <li>• robotics and automated technology,</li> <li>• mobile technology,</li> <li>• platforms and reporting,</li> <li>• project information encryption,</li> <li>• 3d printing,</li> <li>• modular or pre-fabricated construction,</li> <li>• building information modeling,</li> <li>• green building,</li> <li>• Leadership in Energy and Environmental Design (LEED) certification,</li> <li>• laser scanning technology,</li> <li>• home improvement/remodeling,</li> <li>• walkable communities</li> </ul>
Information Technology/Business Process Management;	<ul style="list-style-type: none"> <li>• Platform Architecture</li> <li>• Social platforms</li> <li>• Cloud computing</li> <li>• Data security</li> <li>• Data privacy</li> <li>• Analytics</li> <li>• Architecture</li> <li>• User experience</li> <li>• Discipline of Strategy Execution</li> <li>• Value from Digitization</li> <li>• Process innovation</li> <li>• Digitizing Process Management</li> </ul>
<ul style="list-style-type: none"> <li>• Health and Wellness</li> </ul>	<ul style="list-style-type: none"> <li>• Fitness and wearable technology</li> <li>• Digital fitness</li> <li>• Healthier food</li> <li>• Beauty enhancing supplements</li> <li>• Ambient wellness - Health boosting features – embedded into the environment.</li> <li>• Calibrated health - Get ready for the age of individualization.</li> <li>• Virtual actualization - Virtual realities, real (physical, cognitive, emotional) improvements.</li> <li>• Impact indicators - Instant, useful real-time feedback on health and wellness impacts.</li> <li>• Distributed diagnosis - New, innovative and seamless ways to access health</li> </ul>



	<p>services.</p> <ul style="list-style-type: none"> <li>• Post demographic betterment - Throw out old thinking and embrace POST-DEMOGRAPHIC diversity</li> </ul>
Hotel, Restaurant and Tourism	<ul style="list-style-type: none"> <li>• Location based technology</li> <li>• Mobile payment</li> <li>• Mobile key</li> <li>• Room control devices</li> <li>• Mobile app for customer use</li> <li>• Energy management</li> <li>• Interactive digital signage</li> <li>• IPTV (Smart TV)</li> <li>• Social media</li> </ul>
Wholesale and Retail Trade	
Banking and Finance	
Mining, Transport and Logistics	<ul style="list-style-type: none"> <li>• Efficient distribution channels</li> <li>• Express delivery system</li> <li>• E-commerce</li> </ul>
Manufacturing	<ul style="list-style-type: none"> <li>• Green growth</li> <li>• Green industry</li> <li>• Clean technologies in industrial production</li> <li>• Greater resource and energy efficiency</li> <li>• Improved water and waste management</li> </ul>
Ownership, Dwellings and Real Estate	
Education	
Power and Utilities	

## VI. CRITERIA FOR EVALUATION OF RESEARCH PROPOSALS

All research proposals submitted to NITESD shall be evaluated by NTTRA Review Team using the following criteria:

Criteria	Description	Base Rate
<b>Relevance</b>	The proposal is related to TVET and focused on training and technology research. The training and new studies in technology should be current and addressing the needs of a particular sector e.g. Photovoltaic Technology under the Construction Sector.	<b>25</b>
<b>Urgency</b>	The conduct of the research study on the training technology areas	



	is imperative, brought about by some compelling forces, issues and developments in TVET	<b>10</b>
<b>Completeness</b>	The proposal covers the primary components of a research study such as: objectives, significance, background of the study, methodology, analysis, conclusion and recommendations	<b>10</b>
<b>Soundness</b>	The research proposal is logical; the premises agree with accepted views; the methodology and the analytical framework are well-defined and designed towards achieving the objectives of the study	<b>20</b>
<b>Viability</b>	The proposal is doable and have a high chance to succeed	<b>15</b>
<b>Magnitude</b>	It considers the great size and extent of coverage of beneficiaries; the result of the study is replicable	<b>20</b>
	<b>Grand Total</b>	<b>100</b>

## VII. FUNDING SOURCE FOR THE IMPLEMENTATION OF THE NTTRA

- All TTIs will allocate funds for the conduct of technology research from their SSP/IGP funds. Aside from SSP/IGP funds they are also encouraged to promote research to industry partners for potential funding or support in the application of the technology research;
- All Regional Offices shall allocate funds from their approved budget for the conduct of technology researches within their respective areas of responsibility. At least 2% of the budget of each office shall be allocated for research activities;
- A research fund shall also be allocated and sourced out by the NITESD intended for the capability building programs, research promotion such as the technology research forum and support for the TTIs to become Innovation Centers;
- Other sources of funds such as foreign assisted projects and other international and local funding organizations shall be tapped to ensure that training support and adequate funding is available i.e. DOST, Samsung and others;
- At the end of the NTTRA term, it is expected that at least P5 million for the plan period is invested in TVET technology researches.

## VIII. MONITORING AND EVALUATION

The monitoring of the NTTRA will be on an annual basis to determine the extent

of achieving the targeted research priorities. The monitoring results will serve as inputs in the evaluation of the NTTRA which will be undertaken in two phases:

- Mid-Term Evaluation (end of 2018);
- Final Evaluation (end of 2022).

The evaluation of the NTRA will consider the following:

- the extent to which the priority areas of research were addressed;
- the extent to which timely and useful information was disseminated to stakeholders;
- the extent to which results of researches were utilized/adopted in the formulation and promulgation of relevant policies and issuances for the TVET sector.

***<http://www.investphilippines.info/arangkada/seven-winners/agribusiness/background>***



NATIONAL TECHNICAL VOCATIONAL EDUCATION AND TRAINING (TVET)  
RESEARCH AGENDA 2017 - 2022

Annex B

**Research Proposal Form**

<b>Title of Research:</b>	
<b>Name of Proponent:</b>	Name:
	Designation:
	Organization:
	Postal Address:
	Tel. No.:
	Fax. No.:
	Mobile No.:
	E-mail Address:
	Total # of publications:
	Total # of citations:
<b>Other Proponent/s:</b>	Name/s:
	Designation/s:
	Organization/s:
	Postal Address/es:
	Tel. No/s.:
	Fax. No/s.:
	Mobile No/s.:
	E-mail Address/es:
	Total # of publications:
	Total # of citations:
<b>Proponent Type (Tick <input checked="" type="checkbox"/> one):</b>	
<input type="checkbox"/> Individual <input type="checkbox"/> Private Organization <input type="checkbox"/> Local Government <input type="checkbox"/> National Government Agency	
<b>Classification of Research:</b>	<b>Scope:</b>
	<input type="checkbox"/> Policy (NTPRA)  <input type="checkbox"/> Technology (NTTRA)
	NTPRA: <input type="checkbox"/> National <input type="checkbox"/> Regional <input type="checkbox"/> Provincial  NTTRA: <input type="checkbox"/> Innovation in TVET <input type="checkbox"/> Preparation for the Fourth Industrial Revolution <input type="checkbox"/> Innovations to support local economic development <input checked="" type="checkbox"/> Discovery and development of new technology areas
<b>Short Background of the Study:</b>	
This part must contain, but is not limited to, the following: <ul style="list-style-type: none"> <li>• Discuss the general and specific problems of your research and explain why it is important.</li> <li>• Introduce the gap in knowledge that the research will address.</li> </ul>	



NATIONAL TECHNICAL VOCATIONAL EDUCATION AND TRAINING (TVET)  
RESEARCH AGENDA 2017 - 2022

<b>Objectives:</b> A. General  B. Specific	
<b>Impact of the Research Study to TVET:</b> <ul style="list-style-type: none"><li>• Discuss the significance of the research in general or to the specific stakeholders.</li></ul>	
<b>Research Methodology/Approach:</b>  Brief discussion on the following: <ul style="list-style-type: none"><li>• <b>Policy Research</b><ul style="list-style-type: none"><li>- Respondents (<i>Who are the subject of your research? Categorize if necessary.</i>)</li><li>- Data Gathering Methods (<i>What are the methods and instruments you will use? Relate to the variables.</i>)</li><li>- Analysis of Data (<i>Quantitative or Qualitative or Mixed Method</i>)</li></ul></li><li>• <b>Technology Research</b><ul style="list-style-type: none"><li>- Project Design (<i>What are the components of the project?</i>)</li><li>- Project Development (<i>How will you develop the project?</i>)</li><li>- Operation and Testing (<i>How will you operate and test if the project meets the requirement parameters?</i>)</li></ul></li></ul> <p>This should be written in 300 – 400 words.</p>	
<b>Total Cost of the Proposal:</b>	To be funded under NTRA:
<b>Expected Start Date:</b>	
<b>Expected Project Duration (Tick <input checked="" type="checkbox"/> one):</b> <input type="checkbox"/> 6 months <input type="checkbox"/> 1 year <input type="checkbox"/> 1.5 years <input type="checkbox"/> 2 years	
<b>Attachments:</b> <ol style="list-style-type: none"><li>1. Work Plan</li><li>2. Budgetary Requirements</li><li>3. Curriculum Vitae (CV) of Proponent/s (signed at every page)</li></ol>	

\_\_\_\_\_  
Printed Name and Signature of Proponent

\_\_\_\_\_  
Date

**Work Plan Template (Sample)**

Proposal Title: \_\_\_\_\_

Name of Proponents: \_\_\_\_\_





# NATIONAL TECHNICAL VOCATIONAL EDUCATION AND TRAINING (TVET) RESEARCH AGENDA 2017 - 2022

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Total Duration (in number of months): \_\_\_\_\_

Start Date: \_\_\_\_\_

End Date: \_\_\_\_\_

Total Cost of the Proposal: \_\_\_\_\_

PhP XXX.XX

Objectives	Expected Output	Milestone Indicators/ Measures	Work Components/ Tasks	Month No.													
				1	2	3	4	5	6	7	8	9	10	11	12		



NATIONAL TECHNICAL VOCATIONAL EDUCATION AND TRAINING (TVET)  
RESEARCH AGENDA 2017 - 2022

**Budgetary Requirements (Sample)**

Proposal Title: \_\_\_\_\_

Name of Proponents: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Total Cost of the Proposal: \_\_\_\_\_

PhP XXX.XX

Line Budget Items		Amount
I.	Travel/Transportation Expenses	
II.	Supplies and Materials	
III.	Communication Expenses	
IV.	Others	
	<b>Total</b>	





NATIONAL TECHNICAL VOCATIONAL EDUCATION AND TRAINING (TVET)  
RESEARCH AGENDA 2017 - 2022

**National NTPRA Proposal Evaluation Form**

Proposal Title:

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Type of Research (Tick [X] one):

- Policy (NTPRA)       Technology (NTTRA)

Criteria	Perfect Score	NTRA National Review Team Score
Relevance	20	
Urgency	10	
Completeness	10	
Soundness of research design	20	
Viability of the proposal	15	
Magnitude	15	
Budgetary requirements	10	
Total Score	100	

Comments/Suggestions:

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Recommendation:

- Approved for funding       For Revision       For Disapproval

Signature of Recommending National NTRA Review Team

Chair: \_\_\_\_\_

Members:

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Approved by:

ROSANNA A. URDANETA  
DDG for Policies and Planning



NATIONAL TECHNICAL VOCATIONAL EDUCATION AND TRAINING (TVET)  
RESEARCH AGENDA 2017 - 2022

Annex C2

**Regional NTPRA Proposal Evaluation Form**

Proposal Title:

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Type of Research (Tick [X] one):

Policy (NTPRA)       Technology (NTTRA)

Criteria	Perfect Score	NTRA Regional Review Team Score
Relevance	20	
Urgency	10	
Completeness	10	
Soundness of research design	20	
Viability of the proposal	15	
Magnitude	15	
Budgetary requirements	10	
Total Score	100	

Comments/Suggestions:

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Recommendation:

Approved for funding       For Revision       For Disapproval

Signature of Recommending Regional NTRA Review Team

Chair: \_\_\_\_\_

Members:

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**Regional NTTRA Evaluation Criteria**

Proposal Title:

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No.	Criteria	Weighted Score	NTTRA Regional Review Team Score
I.	Innovativeness	20%	
II.	Market Potential	20%	
III.	Technical Feasibility	20%	
IV.	Availability of Resources	20%	
V.	Scope	20%	

Comments/Suggestions:

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Recommendation:

- Approved for funding
- For Revision
- For Disapproval

Signature of Recommending Regional NTRA Review Team

Chair: \_\_\_\_\_

Members:

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**National NTTRA Evaluation Criteria**

Proposal Title:

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No.	Criteria	Weighted Score	NTTRA National Review Team Score
I.	Relevance	25%	
II.	Scope	25%	
III.	Responsible Business	25%	
IV.	Cost-benefit Potential	25%	

Comments/Suggestions:

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Recommendation:

- Approved for funding
- For Revision
- For Disapproval

Signature of Recommending National NTRA Review Team

Chair: \_\_\_\_\_

Members:

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Approved by:

ROSANNA A. URDANETA  
DDG for Policies and Planning





**Technical Education and Skills Development Authority**  
**National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022**  
**CALL FOR PROPOSALS**

The realization of TESDA's mandate to manage and supervise technical education and skills development in the Philippines has research as one of its cornerstones. The creation and implementation of necessary policies and programs to steer national development begins with research- the examination, evaluation, and proposition of plans.

To further develop TVET research culture, TESDA launched its National TESD Research Agenda which is categorized into Policy Research (NTPRA) and Technology Research (NTTRA). Below are the research priority areas:

For the NTPRA	For the NTTRA
<ul style="list-style-type: none"> <li>• TVET for Global Competitiveness</li> <li>• TVET for Social Equity</li> <li>• Qualifications Standards and Management</li> <li>• TVET Trends/Development Issues</li> </ul>	<ul style="list-style-type: none"> <li>• Agribusiness</li> <li>• Construction</li> <li>• Information Technology/Business Process Management</li> <li>• Health and Wellness</li> </ul>

The Technical Education and Skills Development Authority (TESDA) is to accept research proposals. This Call for Proposals is for specific priority areas identified in the National Technical Education and Skills Development Research Agenda (NTRA) 2017-2022.

#### **I. ELIGIBILITY INFORMATION**

##### **A. Internal**

All TESDA employees (COROPOTI) who are taking their baccalaureate program, and graduate studies (masters or doctorate).

##### **B. External**

Individuals/trainers, local government units, private organizations, and national government agencies may submit their research proposals.

#### **II. PROPOSAL AND SUBMISSION INFORMATION**

##### **A. Documentary Requirement**

##### **1. Letter of Intent**

Together with the proposal, TESDA requires submission of a formal letter of intent from the applicant. The letter should be addressed to the Regional Director in the area.

**THE REGIONAL DIRECTOR**

TESDA <REGION>

<ADDRESS 1>

<ADDRESS 2>

##### **2. Research Proposal**

The research proposal must be written in English, with American Psychological Association (APA) as form of citation, typed on standard A4 paper (8.27 × 11.69 inches).

Applicants are advised to download all required forms from the official TESDA website.  
**<Insert Hyperlink to NTRA webpage>**

**3. Curriculum Vitae (CV) of the Proponent/s**

The proponents should provide four (4) copies of the CV per proponent. The CV should be signed on each page.

**B. Submission of Proposals**

All proposals must be submitted via email or in person **on or before <DD MONTH YEAR>** Guidelines can be checked in TESDA Circular Number 048 s. 2017, No. 061 and 78 s. 2018, (include amendments #), accessible at the TESDA website. **<Insert Hyperlink to NTRA webpage>**

Individuals, local government units, private organizations, national government agencies, and TESDA scholars and employees must submit their research proposals to the **TESDA Regional Office** where they are located.

**III. FUNDING**

As indicated in TESDA Circular No. 61, series 2018, depending on the scope of the study, the maximum amount to be funded per study is as follows:

**A. Policy Research**

Scope	Maximum Amount (in Peso)	Duration of Research
National	300,000	6 – 12 months
Regional	200,000	
Provincial	100,000	

**B. Technology Research**

Scope	Maximum Amount (in Peso)	Duration of Research
Innovation in TVET;	700,000.00	6 – 12 months
Preparation for the Fourth Industrial Revolution;	500,000.00	
Innovations to support local economic development;	500,000.00	
Discovery and development of new technology areas;	300,000.00	

**Contact Information**

For further inquiries, you may contact:

TESDA Planning Office - Policy Research and Evaluation Division.

- Address: 6<sup>th</sup> floor, TESDA Central Office, East Service Road, South Luzon Expressway (SLEX), Fort Bonifacio, Taguig City
- Contact number: +632 88172675
- Email address: [ntra@tesda.gov.ph](mailto:ntra@tesda.gov.ph) | [po.pred@tesda.gov.ph](mailto:po.pred@tesda.gov.ph)
- Website: <http://www.tesda.gov.ph/callforproposals>