

Republic of the Philippines
TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY
East Service Road, South Luzon Expressway, Taguig, Metro Manila

144th TESDA BOARD MEETING
29 May 2024, Wednesday, 1:30 P.M.
TESDA Board Room, 7th Floor, TESDA Main Building
Taguig City

Resolution No. 2024 - 03
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**APPROVING THE RECOGNITION OF THE
DIPLOMA PROGRAM STANDARDS IN CYBERSECURITY**

WHEREAS, Section 14 (b) of Republic Act No. 7796 mandates that TESDA shall develop and establish a national system of skills standardization, testing, and certification and conduct research and development on various occupational areas in order to recommend policies, rules, and regulations for effective and efficient skills standardization, testing, and certification system in the country;

WHEREAS, on 16 January 2018, Republic Act No. 10968 entitled "An Act Institutionalizing the PQF, Establishing the PQF-National Coordinating Council (NCC) and Appropriating Funds Therefor" was enacted, to institutionalize the Philippine Qualifications Framework (PQF), which sets the standards for qualification outcomes;

WHEREAS, the Philippines has been engaged in the process of referencing the PQF with the ASEAN Qualifications Reference Framework (AQRf), which is a regional framework that enables comparisons of qualifications across the ASEAN Member States (AMS) towards greater mobility of students and professionals within the ASEAN region;

WHEREAS, as part of the referencing process stipulated in the AQRf Referencing guidelines, the Philippines has to undergo the procedure of including Qualifications in a national database of quality-assured qualifications, known as the "Philippine Qualifications Register (PhQuAR)";

WHEREAS, TESDA developed a Diploma level qualification aligned with the descriptors of the PQF, benchmarked with the ASEAN Mutual Recognition Arrangements (MRAs), among others, and issued TESDA Circular No. 38 series of 2017 - "Implementing Guidelines for the Program Under PQF Level V (Diploma) Pilot." The Diploma programs covered by this Circular are described by the agreed/developed seventeen (17) Program Learning Outcomes (PLOs);

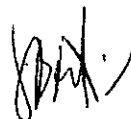
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WHEREAS, the Ladderized Education Act or Republic Act No. 10647 institutionalizes the "...ladderized interface between technical-vocational education and training and higher education to open the pathways of opportunities for career and educational progression of students and workers, create a seamless and borderless system of education, empower students and workers to exercise options or choose when to enter and exit in the educational ladder, and provide job platforms at every exit as well as the opportunity to earn income;"

WHEREAS, the Diploma in Cybersecurity and its curriculum were co-developed through stakeholders' consultations with an industry association to adhere to industry standards and needs, concerned government agencies such as the Department of Information and Communications Technology (DICT) and the TESDA Regional Offices, with higher education institutions (HEIs) and technical vocational institutions (TVIs) and were presented in different fora such as the Policy and Planning Cluster, Inter-Cluster meetings and other stakeholders' consultations.

WHEREAS, the curricula developed are aligned with the PQF level V descriptors and packaged towards the attainment of the 17 Program Learning Outcomes (PLOs) with their corresponding Performance Indicators (PIs) function as either to Introduce (I), Enhance (E) or Demonstrate (D) the PLO.

WHEREAS, the TVIs that will offer a Diploma Program in Cybersecurity must first secure a Certificate of Recognition for Diploma Program (CRDP) from the respective TESDA Regional Offices before they can offer such a program.

WHEREAS, the Regional/ Provincial Offices (ROPOs) shall evaluate the program documents in accordance with the Implementing Guidelines on the Diploma Program Standard in Cybersecurity with the attached Annexes; the TESDA Circular 119, s. 2021; TESDA Circular 018, s. 2023; and TESDA Circular 021, s. 2023. The evaluation of the Diploma Program must undergo the evaluation through Perspectives 1 through 3 of the Manual on Evaluation of PQF Level 5 (Diploma) Programs (TESDA Circular 086, s. 2019). However, the evaluation of the Diploma Program using Perspective 4 of the Manual on Evaluation of PQF Level 5 (Diploma) Programs (TESDA Circular 086, s. 2019) for all Diploma Programs in Cybersecurity shall be waived since this is considered an emerging technology.

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WHEREAS, the Diploma Program Standards in Cybersecurity covers the following courses:

- 1) General Education and Other Non-Technical Courses per CHED CMO 20 s. 2013 can serve as a reference.
- 2) Mandated courses are composed of 7 courses that are legislated in nature such as four (4) courses on Physical Education (RA 5708), one (1) course on Life and Works of Rizal (RA 1425), and two (2) courses on NSTP (RA 9163), either Civic Welfare Training Service (CWTS), Literacy Training Service (LTS), or Reserve Officers' Training Corps (ROTC).
- 3) Theoretical courses that enable learners to gain a solid foundation in the fundamental principles of technology. The following are the theoretical courses which may be included in an institution's Diploma program in Cybersecurity:
 - Introduction to Computing with Technological Change
 - Computer Programming 1
 - Computer Programming 2
 - Information Management
 - Discrete Mathematics
 - System Analysis and Design
 - Social Issues and IT Professional Practice
 - Research1 (Capstone Title Defense)
 - Research 2 (Capstone Proposal)
- 4) Core Technology Courses serve as the fundamental building blocks for learners' respective specializations. These courses are essential in providing the necessary foundational skills required for learners to excel in their chosen fields. The following are the Core Technology Courses that may be included in an institution's Diploma program in Cybersecurity:
 - Computer System Installation and Configuration
 - Server Architecture
 - Data Communication and Network Management 1
 - Data Communication and Network Management 2
 - Cloud Computing
 - Data Structure and Algorithms
 - System Integration and Architecture 1
 - System Administration and Maintenance

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- Information Assurance and Security 1
 - Information Assurance and Security 2
 - Application Development and Emerging Technologies
 - Software Engineering with Quality Testing and Evaluation
 - Cybersecurity Operation
- 5) Supervised Industry Learning with Security Operations Center (SOC) Project Plan.
- 6) Elective Technology Courses are based on the institution's objectives, capacity and industry demand. The decision to offer such courses is made after careful consideration of various factors to ensure that the courses offered are aligned with the institution's goals and meet the needs of the industry. The following are the Elective Technology Courses which may be included in an institution's Diploma program in Cybersecurity:
- Web Development 1
 - Web Development 2
 - Mobile Programming
 - Integrative Programming Technologies
 - Platform Technologies
 - Human Computer Interaction
 - Open Source Software
 - Industrial Security

Further, TVIs have the flexibility to offer Training Regulations (TR) or Competency Standards (CS)-based qualifications either as stand-alone programs or integrated into courses, as determined by the institution and industry experts. Other elective technology courses included TR-or CS-based qualifications and covers the following:

- Computer Incident Handling Level I
- Computer Incident Handling Level II
- Cyber Threat Mitigation Level II
- Computer Systems Servicing NC II
- Data Analytics Level III
- Security Operations Center (SOC) Analysis Level III
- Cyber Threat Intelligence Analysis Level III
- Open-Source Intelligence (OSINT) Investigation Services Level III
- Cyber Risk Assessment Level III
- Ethical Hacking Level IV

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WHEREAS, the Diploma Program in Cybersecurity has entry and exit points at the end of each term to ensure that learners who will take the program have the opportunity to land jobs and have the opportunity for credit transfer when learners pursue a higher education program. The duration of the Diploma Program in Cybersecurity is three (3) years inclusive of Supervised Industry Learning.

WHEREAS, the trainee entry requirements of the Diploma Program in Cybersecurity are any of the following to wit:

- 1) Graduates of the K to 12 Curriculum or of the old Basic Education Curriculum or individuals who have acquired a high school graduate status under the Alternative Learning System (ALS); or
- 2) Those who have demonstrated prior learning under TESDA's policy of Recognition of Prior Learning (RPL) (TESDA Circular No. 90, s. 2021); or
- 3) Others (College graduates, college undergraduates, College/TVET dropouts).

WHEREAS, the trainer's qualifications of the Diploma Program in Cybersecurity must have the following qualifications to wit:

- 1) The learning facilitators/trainers who will teach the General Education, Non-technical Courses, and Mandatory Courses must have a bachelor's degree and preferably with a major in the course that they will be teaching or with equivalent relevant training, and at least with a Master's degree in the related field.
- 2) For the learning facilitators/trainers who will be handling Technical Courses, the following are required:
 - A TMC I or COC on Facilitate Training Session leading to TM I;
 - Bachelor's degree holder with a cybersecurity TVET qualification or any equivalent relevant training and industry/vendor certification OR a TVET Diploma in Cybersecurity graduate with at least 1 year industry or teaching experience in Cybersecurity-related programs

WHEREAS, during the 167th Standards-Setting and Systems Development (SSSDC) Committee Meeting held on 08 May 2024, the Committee deliberated upon and favorably recommended to the TESDA Board the recognition of the Diploma Program in Cybersecurity.

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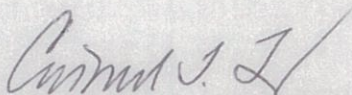
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NOW, THEREFORE, BE IT RESOLVED AS IT IS HEREBY RESOLVED, that the TESDA Board in its meeting today, 29 May 2024, Tuesday at 1:30 P.M., approves and recognizes the Diploma Program Standards in Cybersecurity.

BE IT RESOLVED, FINALLY, that:

- (1) Copies of this Resolution be published in a newspaper of general circulation, and disseminated to all concerned, and the same shall be effective fifteen (15) days after publication;
- (2) A Certificate of Completion for Diploma Program in Cybersecurity shall be awarded by the education and training provider to students who completed the program;
- (3) Recognition of Diploma Program in Cybersecurity shall ensure that all subsequent rules and regulations of TESDA pertaining to the Diploma Program Standards in Cybersecurity shall be complied with;
- (4) Any grantee and agent/representatives shall comply with all the existing laws, rules, regulations, policies, guidelines and circulars of TESDA; and
- (5) The Diploma Program Standards in Cybersecurity shall be subject for policy review by the TESDA Board on an annual basis.

Adopted this 29th day of May 2024.



USEC. CARMELA I. TORRES
Presiding Chairperson, TESDA Board
Undersecretary, Department of Labor
and Employment




SUHARTO T. MANGUDADATU, Ph.D.
Secretary/Director General, TESDA

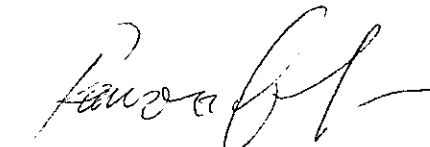



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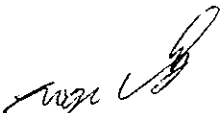
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MR. RENE LUIS M. TADLE
Board Member, Labor Sector


MR. RAMON R. DE LEON
Board Member, Labor Sector


DR. AVELINO S. CARAAN, JR.
Board Member, Labor Sector


MR. ROGELIO J. CHAVEZ, JR.
Board Member, Labor Sector


MS. SHIRLEY VICOY-YORONG
Board Member, Labor Sector


DR. LEONIDA BAYANI-ORTIZ
Board Member, Employer Sector


MS. FLORDELIZA CUSI LEONG
Board Member, Employer Sector


MS. MARY G. NG
Board Member, Business and
Investment Sector

Prepared by:


ATTY. JAN MICHAEL P. JARO
Board Secretary VI