

MODEL EMBEDMENT OF TVET COMPETENCIES/QUALIFICATIONS IN THE LADDERIZED BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING PROGRAM

CHED MEMORANDUM ORDER (CMO) NO. 01 SERIES OF 2012, January 24, 2012

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SUBJECT :

MODEL EMBEDMENT OF TVET COMPETENCIES/QUALIFICATIONS IN THE LADDERIZED BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING PROGRAM

In accordance with the pertinent provisions of Republic Act (RA) No. 7722, otherwise known as the "Higher Education Act of 1994," Executive Order 358-2004 "Institutionalizing a Ladderized interface between Technical Vocational Education Training (TVET) and Higher Education (HE), and by virtue of CEB Resolution No. 328-2011, dated December 16, 2011, the model embedment of Technical and Vocational Education and Training (TVET) Competencies/Qualifications, contained in appropriate TVET Training Regulations (TRs), in the Ladderized Bachelor of Science in Mechanical Engineering program is hereby adopted and promulgated by this Commission.

ARTICLE I

AUTHORITY TO OPERATE

SECTION 1. Authority to Operate

All Private Higher Education Institutions (PHEIs) with recognized Bachelor of Science in Mechanical Engineering (BSME) program granted by the Commission on Higher Education (CHED) and by the respective Governing Boards in the case of chartered State Universities and Colleges (SUCs), and Local Colleges and Universities (LCUs) intending to offer the ladderized BSME shall submit to CHED the necessary documents required by CMO No. 43 series 2008 - "Implementing Guidelines of Executive Order No. 694 entitled "Enabling Higher Education Institutions to Opt to Ladderize their Education Programs Without Need for Issuance of Permit from the Commission on Higher Education and the Technical Education and Skills Development Authority."

ARTICLE II

MODEL CURRICULUM

SEC. 2. Curriculum Description

The model BSME curriculum with embedded TVET qualifications shall be adopted as the minimum requirement and shall be built as prescribed in "CMO 09, s. 2008-Policies and Standards for Bachelor of Science in Mechanical Engineering Program" for the completion of the ladderized BSME program. The TVET qualifications embedded in this curriculum include but are not limited to the following:

TVET Qualification/s

Track 1:

Automotive Servicing NC I
Automotive Servicing NC II

Track 2:

RAC Servicing NC I
RAC Servicing NC II

Track 3:

Gas Welding NCI
Gas Welding NC II

Track 4:

Machining NC I
Machining NC II

Track 5:

Tool and Die Making NC II

Track 6:

Shielded Metal Arc Welding (SMAW) NC I

SEC. 3. Curriculum Outline

The curriculum outline is divided into five (5) components namely: General Education Courses, General Engineering Courses, Basic Mechanical Engineering Courses, Professional Mechanical Courses, and Practicum/Work Integrated Learning.

Identified relevant TVET Competencies/ Qualifications for BS Mechanical Engineering are embedded in General Education and Basic Mechanical Engineering Courses.

SEC. 4. Enrichment of Model Curriculum

The HEI intending to offer the ladderized BSME program may enrich the sample/ model program of study depending on the needs of the industry, provided that all prescribed courses with corresponding pre-requisites/co-requisites in the curriculum outline are complied with. Please refer to the five Attachments.

ARTICLE III

REQUIREMENTS

SEC. 5. Faculty Qualifications and Other Requirements

The general requirements for the Bachelor of Science in Mechanical Engineering Program are contained in CMO 09, s. 2008.

On the other hand, any higher education institution (HEI) intending to offer the ladderized BSME program should satisfy the faculty and other requirements as prescribed in CHED Memorandum Order No. 09, s. 2008 and TESDA Training Standards requirements, (curriculum design, training delivery, laboratory facilities, equipment and tools faculty/trainer qualifications, as indicated in the specific Training Regulations and institutional assessment and national certification procedures) as prescribed in CMO No. 43, s. 2008.

ARTICLE IV

CERTIFICATES

SEC. 6. HEIs may admit a holder with valid relevant TESDA National Certificate/s who wishes to pursue BSME program. Such certificates may be given credit units upon verification by the concerned HEIs. Further, the Transcript of Records shall reflect the grade of "Passed" and the TESDA NC level.

ARTICLE V

MONITORING AND EVALUATION

SEC. 7. The CHED together with TESDA representatives shall jointly monitor and evaluate/compliance audit, to ensure adherence with the minimum requirements. Compliance audit shall be done at least once every two years.

ARTICLE VI

SANCTIONS

SEC. 8. For violations of this Memorandum Order, the Commission may impose such administrative sanction/s as it may deem appropriate pursuant to the pertinent provisions of Republic Act No. 7722, in relation to Section 69 of BP 232 otherwise known as the Higher Education Act of 1982, and Section 143 of the Manual of Regulations for Philippine Higher Education (MORPHE), and other related laws.

ARTICLE VII

SEPARABILITY AND REPEALING CLAUSE

SEC. 9. Any provision of this CMO, which may hereafter be held invalid, shall not affect the remaining provisions.

ARTICLE VIII

EFFECTIVITY CLAUSE

SEC. 10. This CMO shall take effect starting first (1st) semester of SY 2012-2013, after publication as required by law.

Quezon City, Philippines, January 24, 2012.

For the Commission:

(Sgd.) PATRICIA B. LICUANAN, PH.D.

Chairperson

See CHED MEMORANDUM ORDER (CMO) NO. 01 SERIES OF 2012 : MODEL EMBEDMENT OF GAS WELDING IN BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING : 108 OG No. 32, 3986-4003 (August 6, 2012)

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