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Engineers 'Write' Job Description: Development of English for Specific Purposes (ESP)-Based Instructional Materials for Engineering Students

Authors : Marjorie Miguel

Abstract: Globalization offers better career opportunities hence demands more competent professionals efficient for the job. With the transformation of the world industry from competition to collaboration coupled with the rapid development in the field of science and technology, engineers need not only to be technically proficient, but also multilingual-skilled: two characteristics that a global engineer possesses. English often serves as the global language between people from different cultures being the medium mostly used in international business. Ironically, most universities worldwide adapt engineering curriculum heavily built around the language of mathematics not realizing that the goal of an engineer is not only to create and design, but more importantly to promote his creations and designs to the general public through effective communication. This premise led to some developments in the teaching process of English subjects in the tertiary level which include the integration of the technical knowledge related to the area of specialization of the students in the English subjects that they are taking. This is also known as English for Specific Purposes. This study focused on the development of English for Specific Purposes-Based Instructional Materials for Engineering Students of Bulacan State University (BulSU). The materials were tailor-made in which the contents and structure were designed to meet the specific needs of the students as well as the industry. Based on the needs analysis, the needs of the students and the industry were determined to make the study descriptive in nature. The major respondents included fifty engineering students and ten professional engineers from selected institutions. The needs analysis was done and the results showed the common writing difficulties of the students and the writing skills needed among the engineers in the industry. The topics in the instructional materials were established after the needs analysis was conducted. Simple statistical treatment including frequency distribution, percentages, mean, standard deviation, and weighted mean were used. The findings showed that the greatest number of the respondents had an average proficiency rating in writing, and the much-needed skills that must be developed by the engineers are directly related to the preparation and presentation of technical reports about their projects, as well as to the different communications they transmit to their colleagues and superiors. The researcher undertook the following phases in the development of the instructional materials: a design phase, development phase, and evaluation phase. Evaluations are given by some college instructors about the instructional materials generally helped in its usefulness and significance making the study beneficial not only as a career enhancer for BulSU engineering students, but also creating the university one of the educational institutions ready for the new millennium.

Keywords: English for specific purposes, instructional materials, needs analysis, write (right) job description

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