Abstract

Ayman H Atteya

Applications and Implications of New Technology in MET Institutions

Technology is having a great impact on colleges and universities, producing what may be the most challenging period in the history of higher education. The technologies change rapidly the industrial age has changed to the information age. Economy is becoming a primarily knowledge-driven that creates requirements for learning activities. The demand for learning as part of lifelong challenge creates a demand for education that exceeds the capability of traditional institution to deliver. In this situation the role of progressive technologies in educational process will increase. The dramatic growth of the adult learner population requires making the process of education less time consuming, cheaper and more attractive which can be done only by using new technologies in education. Globalization process has broken many artificial barriers as time and language. Computerized education with its flexibility and adaptation to individualized needs can prepare for the near future. The fast improvement of scientific instruments, telecommunications on the globe will accelerate the scientific-technological progress, and those who would be unable to catch up with this accelerating progress have no chances on the world market. Will computerized learning adapt to the needs, habits and individual features of Maritime Education and Training (MET) institutions and competency needs. The nature of the MET field creates challenges in education settings, because MET has an important part in competency component, in addition to a theoretical component. Nowadays shipping depends heavily on high-tech products, it is necessary to find methods to enable seafarers to keep track of technical developments (for example, on-board distance learning systems, lifelong learning, etc). This paper will discuss application of new technologies in MET institutions, such as student centered approach in distance education, usage of IT, CBT, CAL, Multi-media, simulation and others in the educational process, and the implication with respect to their application.