Abstract

This discussion presents an overview of the technological competence that a computer class instructor should be able to display and illustrates how technological resources can be acquired through grants. Various fundamental sections of the grant proposal are illustrated in a summary form. The discussion also reflects on the entire course and shows how I can apply the knowledge acquired in professional and personal life.

**Key words:** competence, technology, grant, proposal, digital projector
Technological Competence in the Workplace or Classroom

The applicants should exhibit various characteristics that are hallmarks of technological competence and informational literacy. Among the characteristics to be looked out for are:

I. The applicants should be able to identify and effectively take part in education societies bringing together professional computer science. They should also be able to take part in groups and organizations that offer professional growth resources and opportunities.

II. The applicants should also be able to design and implement developmentally appropriate learning opportunities that can be supporting the learners’ diverse needs.

The applicants should be qualified based on his/her competence in facilitating computer science education in organizations that offer professional growth resources and opportunities. This qualification is attached to the nature of work which the instructors would be assigned. For example, the instructor will be directly involved in training the organization’s employees to help in enhancing employee’s professional growth. This objective may not be achieved if the applicants fail to show competence in being actively involved in professional computer science training.

Being able to understand the learners’ diverse needs either in a classroom setting or at the work place would be a vital characteristic because of the understanding that learners have diverse levels of potentiality and needs. The applicants should display an ability to organize and present flexible instructional procedures that would consider the learners’ diverse needs so that all of them may benefit.
The Salient Aspects of the Professional Standards of the International Society for Technology in Education

The International Society for Technology in Education (AECT) (2014) has well established standards to be met by computer science educators. The standards are grouped into four broad categories that include; knowledge of content, exhibiting effective teaching and learning strategies and the ability to initiate, and maintain an effective learning environment. Another vital standard is the ability to demonstrate effective professional knowledge and skills.

The standard Which maps to the Two Characteristics of the Hypothetical Applicants

The first standard which maps to the characteristics discussed is the ability to apply effective teaching and learning strategies. This standard relates to the instructor’s ability to design and implement developmentally appropriate learning opportunities that would support learner’s diverse needs. Being able to respond to the learners’ diverse needs is vital in ensuring that a successful learning process prevails.

The second standard is the ability to demonstrate effective professional knowledge and skills. This standard relates to the instructor’s ability to take part in the professional computer science and in its education societies, organizations, as well as groups that offer professional growth opportunities and resources. The standard is significant based on the idea that the instructors will be directly involved in facilitating learning processes to enrich learners with the necessary skills in the application of technology in the modern society.
Acquiring Resources through Technology Grants

Goldin & Katz (2012) noted that the digital projector is a technology that is widely used in any educational set up. It is a computer display devise which has the ability to enlarge video or images on the screen. The projection size of the digital projector is adjustable depending on the classroom’s size and the number of learners. This technology stands out to be the best because of a number of reasons. The reasons include; it is cheap and readily available, it requires low maintenance costs, and it does not need much skill to operate and enhances the outlook of the learning environment. The digital projector is also portable and can easily be carried away in a bag if it is not permanently fixed. It also saves an organization’s space because it is small and only takes a small space (Cennamo, Ross & Ertmer, 2013).

The acquisition of a digital projector would help an organization to enhance the learning process as it will fill the gap of the absence of a display devise that is more interactive and attractive to learners (Parsons & Oja, 2013).

The Grant
Computers and Technology Grant

A summary of the Grant Proposal

Problem statement: Financial constraints have posed a challenge to Pace School from adopting the use of modern technology in the learning process.

The goal: The goal of acquiring and engaging the use of a digital projector technology in learning is to enhance learner’s participation
and achievement in the learning process.

**Outcome:** Adopting the digital projector technology in the learning process will make learning to be more interactive and effective.

**Target population:** The technology targets learners of low, average and above average knowhow on the use of technology in the learning process. The target population comprises students from poor backgrounds who have not got an opportunity to interact with the technology in their learning life.

**Evaluation criteria:** The success of the technology will be evaluated by doing an assessment on the learner’s ability to effectively use it in doing academic presentations.

It would also be evaluated by looking at the performance trends of students from the time when the technology is incorporated in the learning process to examine its impact on the students understanding and retention.

**Reflection**

The course has presented an opportunity to give an in-depth analysis of the modern technologies that are applicable in educational setting. It is clear to me that the adoption of technology in the learning process can enhance effective learning and retention capacities of learners. I have also realized that the use of technology in educational setting is not necessarily expensive and may not require a lot of technical skills from instructors. The course has provided me with an insight on alternative ways of acquiring the required technology through grants (Johnson, L., & Lamb, 2007).
The course has enriched me with adequate knowledge on the essence of doing evaluations to assess a student’s response to the technology that is incorporated in learning. It can be accomplished using short review questions or by involving learners in small discussion groups and class presentations.

It is evident that the adoption of technology in the learning has the effect of speeding up the process of learning as the instructor may facilitate class activities and provide soft copy notes to the learners after class. Learner’s ability to retain concepts is also boosted by use of technology in learning (Reiser & Dempsey, 2011).

Application of the Learning Outcome in Professional and Personal life

As a professional teacher, I will always strive to apply technology in my classes to boost the learner’s levels of participation and retention. I will specifically use the digital projector to ensure that every learner is able to follow and actively participate in the learning process. I will extend the use of technology to my personal life by keeping my documents safely in soft copy to avoid any inconveniences.

The course has changed my personal and professional philosophy concerning the design, development and evaluation of educational technology. I was always on the view that designing and developing educational technology would be unachievable by a relatively poor learning institution. The course has illustrated alternative ways buy which technological equipments can be obtained by a needy institution. In my evaluation of educational technology, I have projected the ability of educational technology to enable an educational institution to make major milestones in making the learning process effective.
Instructional strategies will need to change and accommodate this change. For example, instructors will need to adopt the more plausible and highly effective mode of presentation by using a digital projector. Instructors will need to shy away from the archaic culture of dictating class notes to students and instead provide soft copy notes after class to make learning more effective and fast.

Instructors will need to involve learners in more interactive sessions where they can do presentations to keep updated on the use of educational technologies.

**Conclusion**

This course has provided the insight on the need to apply modern technology in the learning process. It has been helpful in investigating the available options of educational technologies and helped in doing a comparative analysis of all possible options. The course has illustrated the impacts that technology can have on learners. It has been helpful in understanding that an educational project does not need to have a high financial capacity to adopt new technologies in the learning process. The knowledge acquired is essential in enhancing professional practices and boosting personal life.
References


