Chapter 14
Learning in 2010:
Instructional Challenges for Adult Career and Technical Education

Jeff M. Allen
University of North Texas, USA

Pamela Bracey
University of North Texas, USA

Mariya Gavrilova
University of North Texas, USA

ABSTRACT
Decades of research into learning have demonstrated that learners are diverse, changing, and adaptable. In this regard, the practice as educators must become flexible and adaptive to meet the wide variation of learning needs. A general consensus exists among educators, businesses, and other stakeholders that there is a significant gap between the knowledge and skills needed for success in life and the current state of education in schools throughout the world (The Conference Board et al., 2006). The internet, social networking, and distance education have created learners with a different set of characteristics, incoming skills, needs, desires, and goals. To meet the learning challenges of the 21st century, instructors must serve as catalysts of change by encouraging classrooms of open dialogue and developing the ability to effectively and efficiently use online communications. Through the process of learning from one another through problem-based activities, students and instructors improve the student-instructor relationship, encounter challenges, and solve them collaboratively.

INTRODUCTION
Educators in the first decade of this century have seen the classroom and instruction change before their eyes. The culture of the classroom, research, and social/professional networking has changed with the introduction of distance education. Yet, the primary goal of post-secondary education remains the same as 25 years ago -- to foster independent, self-motivated, self-regulated, self-directed thinkers who will become global citizens and specialists in a given field (Jacobson & Harris, n.d.; Magolda, 2007). Decades of research into learning have
demonstrated that learners are diverse, changing, and adaptable. Thus, our practices as educators must become flexible and adaptive to meet the wide variation of learning needs. For example, current research expresses that self-regulated and self-directed skills are the basis of lifelong learning (Dyan, Cate, & Rhee, 2008). Distance education has grown substantially in higher education (Miller & Lu, 2003); thus, self-regulation or self-direction is becoming a necessity of learning. Post-secondary education’s goals will essentially remain the same for the next several decades; yet, the learner has changed. The internet, social networking, and distance education have created learners with a different set of characteristics, incoming skills, needs, desires, and goals. This article explores the new 21st century learner and challenges adult career and technical education to change to better facilitate these self-learners.

21ST CENTURY LEARNERS

Self-directed learning (SDL) has been strongly encouraged in the digital society (Siaw, 2002). Conrad and Donaldson (2004) asserted that success in distance education depends on the use of learning strategies that support the development of self-direction. It is critical to understand the importance of self-direction due to the increasing prevalence of distance education for university work, non-degree training, and skill enhancement intended to retool workers reentering — or transitioning into — the labor market. In order to benefit from these online courses, students should possess at least some minimal level of readiness for SDL (Dyanan, Cate, & Rhee, 2008).

Although students vary in their desires for autonomy and guidance (Magolda, 2007), self-directed learning develops autonomous learners able to control and take responsibility for their own learning (Ng, 2008). Yet, the physical absence of an instructor and increased responsibility of learners to effectively engage in learning may present difficulties, particularly to those with low self-regulatory skills (Lee, Shen, & Tsai, 2008). With the development of new technologies, learners are gaining the resources to pursue their own learning agendas. This experience is much more powerful, and significantly benefits society when learners decide to learn for themselves (Collins, 2006).

Distance education should be student-centered, mainly moving learners from dependency toward self-directedness (Richards, Dooley, & Lindner, 2004). Shokar, Shokar, Romero, and Bulik (2002) found that a learner’s level of self-directness increases as their level of education increases. Self-direction depends on one’s levels of psychological and social maturity, as generated by the assumption of adult life roles, as well as one’s internal or external locus of control (Knowles, Holton, & Swanson, 1998).

Piskurich (1996) suggests that the “self” in self-directed learning becomes more appropriate to human resource development with the advent of the learning-centered concept, since these concepts increase the importance of trainee choice in the training process—creating the need for greater “self-directedness” on part of the trainee. Research shows that the lack of self-directedness is not normally due to any genetic or psychological limitation, but seems to be an acquired response to a society in which learners are “spoon-fed” during the formative years of their learning (Piskurich, 1996). Self-directed learning begins with an incentive to learn plus an interest, leading to accessing resources; with systematic attention in learning (Roberson & Merriam, 2005). It is an attractive, complex, and ambiguous concept that emphasizes human capacity, the potential for behavior change, and self-evaluation (Danis, 1992). Hatcher (1997) correlates self-direction with “deep” learning, and Garrison (1997) views self-monitoring of cognitive and metacognitive processes as a prerequisite of self-directed learning.

SDL can also be described as intentional and self-planned (Tough, 1971) learning, where the individual is responsible for (Brockett & Hiemstra,
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