INTRODUCTION

E-learning has become a vibrant trend in technology-enhanced education. But the trend is not only with educational institutions. Business and industry are equally enamored with the prospect of educating workers through technology. A Learning Circuits survey found that 81.7% of organizations use some sort of learning management system (Ellis, 2005). Students or employees can access their learning materials through the Internet using an Internet service provider (ISP). Learning programs and materials are hosted and available online, allowing people to learn, interact, and even earn degrees in the comfort of their own homes, and on their own timeline. However, e-learning is not just for distance education. Just-in-time access (or anytime access) to learning materials for both formal and informal learning is transforming the training and educational fields. Anyone with Web space can now make learning materials available to a global audience.

BACKGROUND

With the ability to host learning materials over the Internet comes the challenge of maintaining and administering the instruction. Consequently, there is a booming market for software designed to aid organizations in managing their e-learning initiatives. These software programs are commonly referred to as learning management systems. A learning management system (LMS) is a Web-based software solution to simplify the administration of learning programs. It can track learner progress through a learning program, provide a forum for collaboration, centralize program information and scheduling, provide a forum for synchronous and asynchronous courseware, and enable the assessment of learning effectiveness (Sun Microsystems, Inc., 2001). However, as the LMS market matures, so will the interest in systems that integrate learning with talent management, certification, regulatory compliance, e-commerce, and other data that can be tied to organizational performance (Bersin, 2005; Sussman, 2005).

Knowledge is now being recognized as a source of competitive advantage, resulting in a shift from viewing learning as an administrative task to one of strategic significance. Thus, in addition to the obvious need to organize, coordinate, and administer learning effectively, there are other forces driving the increased use of LMSs. Cost savings is the leading reason that corporate America invests in learning management systems (Dobbs, 2002). Companies are finding that they have to manage their learning not only across geographic distance, but also across cultures and practices. Companies also want their skill sets consistent across their operations. Labor shortages, limited resources, and corporate responsibility are all increasing the need to manage learning (Hall, 2003). As corporate learning becomes more sophisticated, attention will point to enterprise learning management systems that will tie into corporate goals and sales, manage all learning, act as a knowledge repository, and assist in talent, certification, and compliance management (Bersin, 2005).

In educational settings, adoption of learning management systems has been widespread (Coats, 2005). Universities are seeing distance education as a way to decrease costs, decrease the need for classrooms, increase access to education, and increase their student population (Minelli & Ferris, 2005). Faculty members are being told they must have online content, driving a need to make the process easier and less time intensive. In addition, instructors have found that the use of course management systems actually improves their teaching (Ehrman & Gilbert, 2003).

A 2005 survey by Learning Circuits found that the top drivers for implementing an LMS are to centralize management of learning activities, track regulatory compliance, and measure training usage (Ellis, 2005). BCE NExxia wanted a system able to track employee productivity, report learning activities, migrate current coursework online and to handheld services, advise learning paths for individuals, reduce administrative costs, and function as a single point of entry for all
training services. Cingular’s goals for implementing an LMS were to establish a consistent curriculum, offer anytime access to learning, and reduce travel (McMaster, 2002). Wyeth Pharmaceuticals saved $1.6 million used a learning management system to consolidate sales training and increase market share (Sum Total Systems, n.d.).

MAIN FOCUS: WHAT IS AN LMS?

In a review of the literature, it is apparent that there is no consistent definition of a learning management system. This is most likely because no two learning management systems are the same. Some organizations develop their own learning management systems and software to address their own unique needs. Others buy off-the-shelf solutions available from a growing number of software vendors. Most organizations use a combination of the two alternatives. The term “learning management system” embraces just about any use of Web technology to plan, organize, implement, and control aspects of the learning process (Sherherd, 2000). Bersin (2005) defines an enterprise learning management system as a “single application, used throughout the enterprise, to manage corporate training programs” (¶ 5). An LMS can also be known as a course management system, training management system, a training administration system, or an integrated learning system (Barron, 2000). Greenberg (2002) seems to give the most comprehensive description of an LMS: a high-level, strategic solution for planning, delivering, and managing all learning events within an organization, including online, virtual classroom, and instructor-led courses. An LMS provides the platform for the organization’s online learning environment by enabling the management, delivery, and tracking of blended learning for employees, stakeholders, and customers. Ultimately, the experts agree that an LMS is the most expensive tool in an e-learning initiative (Dobbs, 2003).

Confusing the Issue

Confusing the issue are other types of learning-management-related software that are appearing on the market. These include the content management system (CMS) and the learning content management system (LCMS). A CMS is commonly used in online publishing. Its objective is to simplify the creation and management of online content (Nichani, 2001). This content may include articles, reports, pictures, ad banners, and more. The reach of an LCMS is more extensive. An LCMS is a system (primarily Web-based) that is used to author, approve, publish, and manage learning content or learning objects. It combines the administrative and management dimensions of a traditional LMS with the content creation and personalized assembly dimensions of a CMS (Nichani, 2001). Traditionally, an LMS provided management of learning performance, learning requirements, learning programs, and planning, and an LCMS provided for management of learning content (Greenberg, 2002). Confusing the issue further are ongoing projects focusing on broader uses of LMS technologies. For example, many learning management systems support the creation of simulated classrooms by creating virtual learning environments. VLEs promote collaboration by providing the “space” and tools that support online communication and teamwork, that collaboration may be limited by specific start and end dates and access once a course ends. On the other hand, virtual learning communities (VLCs) are ongoing and do not suffer the “course-based” limitations of VLEs (Cooper, 2003). VLCs are online environments that support and maintain ongoing collaboration and professional growth and development.

As more and more products appear on the market, the need to manage the learning, as well as the learning management systems, is becoming more apparent. It is rare to find an organization that employs only one piece of software to comprise their entire LMS, although the “enterprise” learning management systems are continuing to increase in the corporate realm (Bersin, 2005). Many are choosing hybrid models where they buy several software programs that meet their specific needs and then build their own integration program to make everything work as one. As corporate learning matures and new and better products become available, learning management systems will continue to evolve.

Implementing LMSs

Implementing an LMS in an organization changes the way learning is managed. Learning has conventionally been instructor-driven, while an LMS places the focus on the learner (Sun Microsystems, Inc., 2001). An LMS helps employees gauge and plan their learning progress, and communicate and collaborate with
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