DESIGNING INSTRUMENTS FOR ASSESSING THE EFFECTIVENESS OF SIMULATIONS

Philip H. Anderson University of St. Thomas
Leigh Lawton University of St. Thomas

PURPOSE:
Using a panel/workshop approach, the purpose of this seminar is to identify alternative instruments designs that would provide objective assessment of learning outcomes achieved through the use of simulation exercises.

METHOD USED:
A Delphi technique will be utilized. The first stage will be to brainstorm possible instrument designs. Session participants will then work in small groups to identify the major components of the individual designs.

The second stage will consist of a full group discussion of the small group sessions. The focus of this stage will be to (1) crystallize the major constructs to be included in each instrument and (2) identify the most promising designs.

OBJECTIVE:
The objective of the workshop is to begin to develop 2 or 3 instruments that have possible assessment capabilities for measuring learning outcomes at the higher levels of Bloom’s Taxonomy. These instruments would then be used by ABSELers at various institutions in conjunction with differing simulation exercises. By so doing, we should foster a systematic move away from perceptions toward a more objective basis for assessing the learning value of simulations. Using these instruments at multiple institutions should also help build a database for determining the validity and reliability of the instruments.

RATIONALE FOR SEMINAR
Assessing what students learn on a business simulation exercise has been a focus in the literature and at ABSEL conferences since simulation exercises were first introduced (Greenlaw and Wyman, 1973; Keys, 1976; Wolfe, 1985; Whiteley and Faria, 1989; Burns, Gentry, and Wolfe, 1990; Wolfe, 1990; Gosenpud, 1990; Wellington and Faria, 1991; Anderson and Lawton, 1992; Gosenpud and Washbush, 1993, 1994; Anderson and Lawton, 1995; Washbush and Gosenpud, 1995). Debate continues as to what, if anything, is learned and whether there is objective versus anecdotal evidence to support the conclusions reached.

Jim Gentry organized a seminar on the relationship between learning and simulation exercises for ABSEL’s 1996 conference. While there was considerable debate, there was also little resolution. The focus of this proposed seminar is to begin the process of developing instruments that collect valid, reliable, and objective data, which will facilitate resolution of the debate. As “scientists”, we need to develop insights based on objective rather than subjective data. This seminar will facilitate that process.

REFERENCES


Bums. AC., J.W. Gentry, and J. Wolfe (1990), “A Cornucopia of Considerations in Evaluating the


