The design of a data based information system model for industrial arts education programs in the United States and territories

Abstract
The purpose of this study was to design a continuous data-based information system model that will aid in the response to the current and future information needs of industrial arts education.

A major problem for research and development in industrial arts education continues to be locating, storing, and organizing basic data about the current status of industrial arts education programs. Industrial arts educators are continually faced with the challenges of planning and modifying programs in the environment of a continually changing and complex society. Data collected in industrial arts programs in the United States and territories have been found to be fragmented and inaccurate. Although selected data have been collected on various aspects of education by agencies such as the N.E.A. and U.S.D.E., there is currently no continuous national reporting system aimed specifically at collecting comprehensive data on all industrial arts programs.

With these data, the profession can make sounder judgements for improvements needed on a national, state and local basis.

A panel of recognized industrial arts consultants were solicited to determine and evaluate the data needs and proposed system components. Further refinement of the system resulted in a field test using the 54 state and territorial industrial arts supervisors as the population. The results of the study identified weaknesses and strengths of the system as a basis for further refinement. The product of the study was a set of functional procedures and components necessary for a data-based information system model.

URI
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In the United States, industrial arts classes are colloquially known as "shop class"; these programs expose children to the basics of home repair, manual craftsmanship, and machine safety. Most industrial arts programs were established in comprehensive rather than dedicated vocational schools and focused on a broad range of skills rather than on a specific vocational training. One of the most important aspects of industrial arts is still that while students design they ultimately realize a solution; learning the challenges involved with working with materials and also the challenges of small scale project management. Some universities have doctoral programs in industrial arts. Contents. 1 Industrial arts clubs. Unlike some other areas of design, however, industrial design focuses more on mass produced items. It does not only cover the concept stage of a product, but it also focuses on designing the product as well as designing a manufacturing plan for the product. collapse all -. 01. RIT is a private college whose fine arts programs are consistently ranked in the "Top 10" by US News. Conferring associates, undergraduate and graduate degrees, it has 4 galleries and a Center for Design. School Type : Private. An exclusive graduate degree granting institution unlike any other in the United States; the 2-year Academy confers MA degrees in 10 areas. All studies are studio-based & students are mentored by 10 Artists-in-Residence. School Type : Private. Enrollment : 152.