

# Chapter 13

## Educational Technoethics Applied to Career Guidance

**Pilar Alejandra Cortés Pascual**  
*University of Zaragoza, Spain*

### ABSTRACT

*Educational orientation should be set within a specific socio-historical context, which is nowadays characterized by the Society of Information. From this starting point, we think that the understanding of both an ethical analysis of technology as well as of the means of communication, which individuals will have to deal with in their professional development, must be considered as content linked to professional orientation. This idea becomes more definite in the concept of educational technoethics and it is studied from two parameters: the intrinsic values that technology and the means of communication include (the aim of technoethics) and their use as mediators of ethical values (means of technoethics). Therefore, the proposal that is currently being implemented in the project “Observation Laboratory on Technoethics for Adults” (LOTA) as well as its implications for professional orientation are concisely presented from both points of view. The present text is a review and update of a previously published article (Cortés, 2006).<sup>1</sup>*

*To Pedro, my brother and partner of athletics and life*

### INTRODUCTION

The information society entails lifelong training in general professional competencies and, in certain cases, in those specific to information and communication technologies (ICTs). Of course, it is true that due to the resources they provide technologies are being employed to search for employment and

training, especially via web pages and some *online* and computer programs. As part of its aims and contents careers guidance therefore includes finding out about (knowledge guidance) and knowing how to use (skills guidance) technological resources and means of communication for work-related choices and adaptation (Cogoi, Sobrado, Hawthorn, R. and Korte, 2005; Hartley and Almuhaideb, 2007). In particular, with regard to the IAEVG's international competencies (2003) for educational and vocational guidance practitioners with regard to *career development* and *placement*, both categories are linked to careers guidance, and although they suggest use of computer and networked resources for said field (*skills*), our understanding is that the *attitudinal* and *capacity* component of ICTs that we are adding here could also feature.

These relationships between ICTs and careers guidance are necessary, but the inter-relationship of a third component is proposed: ethical values. In view of the socio-contextual factors framing the current educative panorama, such as post-modern thinking and the knowledge and information society, it is necessary to study the *triangle* formed by careers guidance, education in values and technology. In other words, if we talk about the space formed by this trio of variables it is because society itself demands that we do so, and, in educational terms, we will need to come up with a response. In this respect, in our opinion the relationship between careers guidance, education in values, and technology involves two lines of study: the first involving the reinforcement of career values demanded by the present knowledge and technology society (Cortés, 2006), and the second dealing with *technoethics* as a component of careers guidance (advice on *attitudes and capacities*). That is, career guidance has to intervene, assess, advise, programme or provide a response to a consultation in three directions: knowing about ICTs, knowing how to use ICTs and having the right attitude to ICTs.

## TECHNOETHICS VERSUS EDUCATIONAL AND CAREER GUIDANCE

In this section we will consider the last direction, that is to say academic and professional guidance on the ethical contents entailed by use of technologies, in other words, *guidance on technoethics*. We shall commence with *educational technoethics*, a concept we developed in previous works (Cortés, 2005a; 2006) and which here we also integrate within the careers guidance field. A significant part of the research undertaken with respect to educational technology and means of social communication focuses on the 'what' and 'how' of their existence and use, but there is a lack of works that include an axiological dimension. Nevertheless, Grill (1997) argues that the first thing a professional should do is look for the 'why' of things from attitudinal perspectives, and states that technology in itself is not a problem, but rather technopolism understood as the ethical changes that become the cause of problems such as, for example, addictive behaviour at work vis a vis technology, or excessive pressure from use of technology in work environments.

The need to axiologically analyse educational technologies in careers guidance is stressed in order to meet full training and educational needs in society both at present and in the future. As Cortina (2001) states, there is a need for an ethic of co-responsibility to guide the current social process and one of IT globalization so that this technical progress serves human beings, without foregoing an ethics of minimum values, which for Cortina (1998) is represented by freedom, solidarity, equality, responsibility and honesty. And it is true that technology and the means of communication for social communication require an ethical analysis in order that they can be employed suitably and coherently, as emphasised by others including Hawkrinde (1991), Nichols (1994), Postman (1995), Sunstein (2003), and Ortega

12 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage:

[www.igi-global.com/chapter/educational-technoethics-applied-career-guidance/37892](http://www.igi-global.com/chapter/educational-technoethics-applied-career-guidance/37892)

## Related Content

---

### Developing Deeper Understanding of Green Inhibitors for Corrosion of Reinforcing Steel in Concrete

Mohammad Ismail, Pandian Bothi Raja and Abdulrahman Asipita Salawu (2015). *Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education* (pp. 118-146).

[www.irma-international.org/chapter/developing-deeper-understanding-of-green-inhibitors-for-corrosion-of-reinforcing-steel-in-concrete/127441](http://www.irma-international.org/chapter/developing-deeper-understanding-of-green-inhibitors-for-corrosion-of-reinforcing-steel-in-concrete/127441)

### Peer Evaluation of Master Programs: Closing the Quality Circle of the CDIO Approach?

Peter Munkebo Hussmann, Anita Bisi, Johan Malmqvist, Birgitta Carlsson, Hilde Lysne and Anna-Karin Högfeldt (2012). *International Journal of Quality Assurance in Engineering and Technology Education* (pp. 67-79).

[www.irma-international.org/article/peer-evaluation-master-programs/67133](http://www.irma-international.org/article/peer-evaluation-master-programs/67133)

### The Context, Design, and Impact of System-Wide Assessments to Enhance Effectiveness in the Higher Colleges of Technology of the United Arab Emirates

Marshall "Mark" Drummond and Matthew A. Robby (2012). *International Journal of Quality Assurance in Engineering and Technology Education* (pp. 1-20).

[www.irma-international.org/article/context-design-impact-system-wide/69788](http://www.irma-international.org/article/context-design-impact-system-wide/69788)

### Cultural Heritage Career Paths for Materials Scientists and Corrosion Engineers

Stavroula Golfomitou, Myrto Georgakopoulou and Thilo Rehren (2015). *Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education* (pp. 349-368).

[www.irma-international.org/chapter/cultural-heritage-career-paths-for-materials-scientists-and-corrosion-engineers/127455](http://www.irma-international.org/chapter/cultural-heritage-career-paths-for-materials-scientists-and-corrosion-engineers/127455)

### Empowering Women in STEM: Embedding STEM in K-12 Education

Gretchen Dietz, Julie Hessedence, Terry Long and Helen E. Muga (2017). *Strategies for Increasing Diversity in Engineering Majors and Careers* (pp. 61-87).

[www.irma-international.org/chapter/empowering-women-in-stem/175499](http://www.irma-international.org/chapter/empowering-women-in-stem/175499)