Using Collaborative Learning Exercises To Transfer Pervasive Skills: Some South African Evidence

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ABSTRACT

The Competency Framework, introduced by the South African Institute of Chartered Accountants (SAICA) details technical competencies, but also places emphasis on the pervasive skills that need to be attained by candidates for them to qualify as chartered accountants (CAs). Thus, an additional onus has been placed on academics to ensure that they use suitable methods to equip aspirant CAs with pervasive skills. The objective of the study is twofold: (a) to determine, using a literature review, whether collaborative learning exercises can effectively develop SAICA's pervasive skills and (b) to provide evidence, by means of a questionnaire, on the extent to which SAICA-accredited academics use collaborative learning exercises and how effective they view this method to be in transferring pervasive skills to students. The literature review found strong support for collaborative learning exercises being effective in the development of all pervasive skills. However, the empirical work provided evidence that not all academics employ collaborative learning SAICA's pervasive skills. While this apparent shortcoming may exist, there is potential for academics to work in collaboration with each other and SAICA on methods that can result in the transfer of pervasive skills to students.

Keywords: Academics; Chartered Accountants; Collaborative Learning Exercises; Competencies; Competency Framework; Development; Pervasive Skills

1. INTRODUCTION

he business world has changed considerably over the last two decades in terms of technological innovations, changes in the economic environment, increasing regulations and the globalisation of the world's economy. These factors have reformed the business environment, which has resulted in professional accountants being expected to master not only technical skills but also pervasive skills (American Accounting Association (AAA), 1989; Albrecht & Sack, 2000; Stovall & Stovall, 2009).

The move to formulate changes in university accounting teaching and learning practices was initiated by the AAA in 1986 (AAA, 1986; Cotton, Rainsburg & Scott, 2002). Subsequently, the Accounting Education Change Commission (AECC) was formed to facilitate improvements in the accounting curriculum (Sundem, 1999; Cotton et al., 2002), since "future accountants would be expected to be as proficient in communication skills as they are with numbers, as comfortable in committee as they are with a calculator, as ready to learn and apply a new theory as they are to interpret an old rule" (AAA, 1995, n.p.). In light of these changes, the International Federation of Accountants (IFAC) developed a set of education standards in 2003 encompassing both technical competencies and pervasive skills (IFAC, 2010). Consequently, the other IFAC member bodies had to align their qualification models to those of the IFAC (Van der Schyf, 2008).

In 2008, the South African Institute of Chartered Accountants (SAICA) introduced a Competency Framework (CF), which encompassed both technical and pervasive skills (SAICA, 2009), the latter being the focus of this paper. Previously, South African (SA) academics were not formally tasked in ensuring that pervasive skills

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were transferred to aspirant chartered accountants (CAs). However, in light of the development of the CF, academics now have to ensure that each pervasive skill is addressed in their academic programmes and that evidence of this is provided to SAICA (SAICA, 2011).

Pervasive skills are the so-called soft skills, which are also described as behavioural skills, non-technical skills, employability skills and interpersonal skills (Brungardt, 2009) in the literature. According to the Oxford Dictionary (2014a), soft skills are "personal attributes that enable someone to interact effectively and harmoniously with other people". Furthermore, graduates are expected to demonstrate more than subject knowledge to meet the needs of their employers (Cargill, Gammie & Gammie, 2002; Brungardt, 2009; Gammie & Joyce, 2009). These attributes are therefore paramount to the profile of professional accountants (De Villiers, 2010; Low, Samkin & Liu, 2013). Academics have been blamed for not equipping graduates with pervasive skills (AAA, 1986; AECC, 1990; Thomas 2000; Drennan & Kavanagh, 2008; Ballintine & McCourt Larres, 2009; Barac, 2009; Brungardt, 2009; Coetzee, Joubert & Oberholzer, 2009; Stovall & Stovall, 2009). Thus, recent accounting literature still calls for aspirant professional accountants to be equipped with these competencies (Drennan & Kavanagh, 2008; Stainbank, 2009; Stovall & Stovall, 2009; De Villiers, 2010; Frank, Gradisher & Ofobike, 2010; Low et al., 2013)

De Villiers (2010) conveyed that even though the accounting curriculum is already full, academics "will need to find innovative ways to deliver on the demands of stakeholders if they wish to remain relevant" (p. 10). Cargill, Gammie and Hamilton (2010) share the notion that universities need to develop their own programmes to ensure that aspirant professional accountants are competent in all skills, which should then be substantiated to their respective bodies. Authors have stressed that in order to address these skills, accounting education should move away from the traditional lecture-based classes to more action-orientated and student-centred approaches (AECC, 1990; AAA, 1999; Albrecht & Sack, 2000; Jayaprakash, 2005). Students should be active, rather than passive participants in the learning process (AECC, 1990; AECC, 1998; AAA, 1999; Beattie, Collins & McInnes, 1997; Boyce, Kelly, Williams & Yee, 2001), as this enhances the development of technical knowledge and skills (AECC, 1998; Baldwine & Ingram, 1991 as quoted in Davis, Dudley & McGrady, 2001; Frank et al., 2010) and retains information for extended periods (Sullivan, 1996). Francis and Samkin (2008, p. 236) convey that "effective learning should be an active and dynamic process".

The method of using collaborative learning has been described as action-orientated and student-centred (Sullivan, 1996). This method was highlighted in the literature given that graduates are expected to work in teams when entering the accounting profession (Berry, 1993; Albrecht, Clark, Smith, Stocks & Woodfield, 1994; Stovall & Stovall, 2009; Low et al., 2013). In the work environment, professional accountants will be required to "exchange ideas, express opinions, solve problems and resolve differences in a timely and proper manner" with colleagues and clients (Stovall & Stovall, 2009, p. 102). Furthermore, graduates will be required to work effectively with colleagues and senior staff members (Low et al., 2013). Collaborative learning results in a "combination of observation, consultation, mutual exchange of information and a process of osmosis" (Eraut, Alderton, Cole & Senker, 1997 as quoted in Cheetham & Chivers, 2001, p. 262). The IFAC (2010) advocates that working collaboratively is essential since it is these skills which enable professional accountants to interact with others, motivate and lead others, resolve conflict and delegate tasks. Furthermore, it has been expressed that "learning is enhanced when it is more like a team effort than a solo race" (McVay, Murphy & Wook Yoon, 2008, p. 47). Accordingly, SAICA have expressed that collaborative learning should be part of the academic programme of aspirant CAs (SAICA, 2011).

Many of the benefits pertaining to collaborative learning have been documented in the accounting literature; however, none of these benefits has been presented in the context of SAICA's pervasive skills. SAICA's pervasive skills echo the skills and values of IFAC, and are comparable to the competencies of other professional bodies (Van der Schyf, 2008; SAICA, 2009). Consequently, it follows that SAICA-accredited academics are not alone in the challenge of transferring pervasive skills to students. Therefore, this study will aid SAICA-accredited academics in the use of collaborative learning exercises to transfer SAICA's pervasive skills. Similarly, it will also provide insight to other academics, both locally and internationally, on the competencies that can be transferred employing collaborative learning exercises.

The remainder of this paper is organised as follows: the next section presents the objective and limitations of the study. The sections that follow describe the theoretical framework of the paper, the research method and the

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empirical findings. Conclusions and recommendations drawn from this study and areas identified for future research are presented in the last section.

2. OBJECTIVE AND LIMITATIONS OF THE STUDY

The purpose of this paper was twofold: (a) to determine whether collaborative learning exercises can effectively develop SAICA's pervasive skills. To this end, a literature review was used and then summarised. (b) To provide empirical evidence, by means of a questionnaire, on the extent to which SAICA-accredited academics used collaborative learning exercises, and how effective they viewed this method in transferring pervasive skills to students.

This study has four limitations: (a) the summary did not differentiate between the various types of collaborative learning exercises. Therefore, the different ways in which collaborative learning exercises can be used, and which pervasive skills can be developed in this manner will be explored in a future study. (b) The questionnaire was limited to the perceptions of accounting academics at SAICA's accredited academic programmes. (c) The questionnaire merely asked academics whether they actually used collaborative learning exercises in their academic programmes and whether they deemed that this method could effectively transfer pervasive skills to students. The questionnaire did not ascertain why academics are not using collaborative learning exercises. This will be addressed in a future study. (d) Lastly, a possible limitation of the literature review is that insufficient accounting evidence was obtained. However, given that each competency is linked to one or more accounting source, this does not pose a problem given that another researcher could have come to the same conclusion using other accounting evidence.

3. RELEVANT LITERATURE

The literature cites several definitions in relation to collaborative learning. Cottell and Millis (1992, p. 97) describe cooperative learning as "a structured form of small group work based on positive interdependence, individual accountability, appropriate team formation, group processing, and social skills". In addition, the *Oxford Dictionary* (2014b) defines collaborate as to "work jointly on an activity or project". Teamwork is defined as "the ability to share responsibilities, confer with others, honor commitments, help others do their jobs and seek help when needed" (Houghton & Proscio, 2001, p. 6). Collaborative learning requires students to be placed in smaller groups and to work jointly on a task (Ballantine & McCourt Larres, 2009). Consequently, the team members "share a common goal" (O'Neil, Lee, Wang, Mulkey, 1999, as quoted in Brungardt, 2009, p. 13).

But what is the ideal size of a team? Authors have varied opinions in this regard. Some suggest that having five team members is the most effective (Sullivan, 1996, as quoted in Stainbank, 2009), while others view having four team members to be more suitable (Cottell & Millis, 1992). Certain authors favour between three and six members in a group (Odafe, 1994 as quoted in Miglietti, 2002). It has been suggested that three members to a group is best, since having only two members will place too much strain on the pair and having four members becomes too difficult to manage (McVay et al., 2008). However, authors are in agreement that the group should be small (Ballintine & McCourt Larres, 2009).

Regardless of the size and dynamic of the group, authors are clear in stating that the academic acting as facilitator plays a pivotal role in the collaborative learning process (Ballintine & McCourt Larres, 2009). The academic's "role becomes planner, facilitator, and occasionally participant" (AECC, 1995). Consequently, facilitators should provide clear instructions to students (Rainsbury & Malcolm, 2003 as quoted Hu, Kern, McGuigan & Weil, 2013), provide structure to the class (Jones, 2013), and regularly engage with the group (Cottell & Millis, 1992). In this way, the facilitator will discover if team members are ill prepared or are not partaking in group activities (Cottell & Millis, 1992).

It has been posited that the following five essential elements are required for effective collaborative learning: (1) "students must sink or swim together"; (2) students need to interact with one another (3) team members need to be made individually accountable (4) there should be social skills such as leadership roles, communication and methods to avoid conflict and (5) group reflection should take place after the completion of a task (AAA, 1995).



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Working collaboratively is not plain sailing. For example, the difficulties reported in the literature pertaining to the facilitator are loss of control (Maesin et al., 2010), not providing clear instructions to the groups (Lehmann, Rose & Strand Norman, 2004) and being ill-prepared in the use of this method (Maesin et al., 2010, Avramenko, 2012). However, this can be overcome by sending the facilitator for training (AECC, 1998). The problems conveyed in the literature relating to the group, suggest that group members may not contribute equally to group activities (Ballintine & McCourt Larres, 2009; Avramenko, 2012), conflict may arise within the group (Lehmann et al., 2004), and problems may be experienced with group dynamics (Avramenko, 2012). The problems set out above may however, be managed by making group members individually accountable (Lehmann et al., 2004), letting group members perform peer evaluations on their fellow team members (Miglietti, 2002), and regularly rotating group members (Cottell & Millis, 1992). Moreover, academics stated that collaborative learning is not geared for large classes (Maesin et al., 2010; Cunningham, 2008 as quoted in Everaert & Opdecam, 2012), and that this method of teaching is more difficult than the traditional classroom lectures (AECC, 1998). This problem can be solved by dividing classes into small subgroups to ensure student participation (De Villiers, 2010).

Collaborative learning exercises can take place in many forms and in combination with other methods namely, group presentations (Adler & Milne, 1997; Stainbank, 2009; Maesin et al., 2010), group assignments, group discussions, games within the group, case studies performed in a group (AAA, 1995; Adler & Milne, 1997; Anderson & Cunningham, 2005; Dyball, Reid, Ross & Schoch, 2010; Maesin et al., 2010; Avramenko, 2012; Van der Merwe, 2013) and in conjunction with group role-playing activities (Maesin et al., 2010; Paulson, 2011). Group-based online activities can also be conducted (Hu et al., 2013).

However, regardless of how this method is employed, the accounting literature provides a host of competencies that can be developed using collaborative learning exercises. (See Table 5.1)

4. RESEARCH METHOD

To achieve the objective of this study, a literature review was summarised to determine the effectiveness of collaborative learning exercises. A questionnaire was used to ascertain the views of SAICA-accredited academics on their use of collaborative learning exercises and how effective they viewed this method to be. The research methods are described below.

4.1 Literature Review

The literature review was used to identify and retrieve empirical studies that were relevant to whether collaborative learning exercises can be employed to develop SAICA's pervasive skills. The search was limited to empirical studies that were written in English and that were within the accounting literature and/or accounting profession. Creswell (2011, p. 86) concluded that "the most likely place to find journal articles is in databases" and that the internet provides "breadth of information" when performing a literature review (p. 91).

To ensure coverage of empirical studies on the topic, the literature review included peer-reviewed journal articles, conference papers, master's thesis and doctoral dissertations. The keywords and descriptors used in the search included accountants, accounting, collaborative learning, cooperative learning, development, education, ethics, groups, group working, learning, professional skills, skills development, small groups, soft skills and team work. The sources comprised eight key databases and one library catalogue. Based on the literature review, the pervasive skills that could be developed using collaborative learning exercises were linked to the literature review sources (see Table 5.1).



4.2 Questionnaire

A structured web-based questionnaire was used as a research instrument to ascertain whether academics use collaborative learning exercises and to obtain their views on how effective this method is in transferring pervasive skills to students. The questionnaire was distributed to all the accounting academics who instruct aspirant CAs at SAICA's academic programmes (SAICA, 2012).

The questionnaire consisted of three sections of mostly closed-ended questions of a quantitative nature. Comments boxes that comprised the qualitative aspect of the questionnaire were included at the end of each section, allowing descriptive responses to enrich and expand the research results.

The questionnaires were pilot tested by a selected group of academics. A data controller was used to set up an online website where the questionnaire could be answered and the data recorded. The questionnaire, containing a dedicated uniform reference (URL), was sent via email to academics at the SAICA-accredited academic programmes. The participants were directed to a website and asked to complete the questionnaire by clicking on the URL. The completed questionnaires were electronically collated by the data controller. Means, medians, standard deviations, minimums and maximums were calculated.

4.2.1 Population And Response Rate

The population for the empirical work included all the accounting academics who provide instruction to aspirant CAs at all of SAICA's accredited academic programmes (SAICA, 2012). In total, 443 emails were sent to the academics with an URL to the questionnaire and 147 academics responded. Note that none of the questions in the questionnaire was compulsory and the participants could refrain from answering a particular section or questions in a section. This explains why the participants did not necessarily answer all the questions. For section one, the effective response rate was 33% (147/443), for section two, 32% (142/443) and for section three, 32% (143/443). These response rates are higher than those of other web-based questionnaires performed in SA (Eiselen & Nkoutchou, 2012) where response rates as low as 10% are common when an onsite questionnaire is used (Economic and Social Research Council, 2012). Marx (2008) claimed that questionnaire response rates in SA vary between 25% and 38%.

5. FINDINGS

5.1 Summary Of The Effectiveness Of Collaborative Learning Exercises In Transferring SAICA's Pervasive Skills

This section provides a summary (Table 5.1) of the effectiveness of collaborative learning exercises in developing SAICA's pervasive skills, based on the literature review detailed in section 4.1. The summary divided SAICA's pervasive skills into three categories, namely ethical behaviour and professionalism (IA), personal attributes (IB), and professional skills (IC) (SAICA, 2009). The literature review was then condensed by identifying whether collaborative learning exercises can be employed to develop SAICA's pervasive skills.



 Table 5.1: Summary Of The Effectiveness Of Collaborative Learning Exercises In Developing SAICA's Pervasive Skills:

 (IA) ETHICAL BEHAVIOUR AND PROFESSIONALISM

(IA) 1. Protects the public interest

AAA, 1999; Cheetham & Chivers, 2001; Foster & Lepard, 2003; IFAC, 2010; Van der Merwe, 2013.

(IA) 2 Acts competently with honesty and integrity

AAA, 1999; Cheetham & Chivers, 2001; Foster & Lepard, 2003; IFAC, 2010; Paulson, 2011; Van der Merwe, 2013.

(IA) 3. Carries out work with a desire to exercise due care

Adler & Milne, 1997; AECC, 1998; AAA, 1999; Davey, Haigh & Kelly, 1999; Thomas 2000; Cheetham & Chivers, 2001; Miglietti, 2002; Foster & Lepard, 2003; Anderson & Cunningham, 2005; IFAC, 2006; Ballintine & McCourt Larres, 2009; Hong Kong Institute of Certified Public Accountants (HKICPA), 2011; Paulson, 2011; Van der Merwe, 2013.

(IA) 4. Maintains objectivity and independence

AAA, 1999; Cheetham & Chivers, 2001; Foster & Lepard, 2003; IFAC, 2010; Paulson, 2011; Van der Merwe, 2013.

(IA) 5. Avoids conflict of interest

AAA, 1999; Cheetham & Chivers, 2001; Foster & Lepard, 2003; IFAC, 2006; IFAC, 2010; Van der Merwe, 2013.

(IA) 6 Protects the confidentiality of information

AAA, 1999; Cheetham & Chivers, 2001; Foster & Lepard, 2003; IFAC, 2006; IFAC, 2010; Van der Merwe, 2013.

(IA) 7. Maintains and enhances the profession's reputation

AAA, 1999; Foster & Lepard, 2003; IFAC, 2006; Van der Merwe, 2013.

(IA) 8. Adheres to the rules of professional conduct

AAA, 1999; Foster & Lepard, 2003; IFAC, 2010; Van der Merwe, 2013.

(IB) PERSONAL ATTRIBUTES

(IB) 1. Self-manages

Cottell & Millis, 1992; Adler & Milne, 1995; AAA, 1995; Johnson, Johnson & Smith, 1991, as quoted in Kimmel, 1995; Sullivan, 1996; Adler & Milne, 1997; Miglietti, 2002; Anderson & Cunningham, 2005; Ballintine & McCourt Larres, 2009; Stainbank, 2009; Stainbank, 2010; Paulson, 2011; McConnell & Sasse, 1999 as quoted in Everaert & Opdecam, 2012.

(IB) 2. Demonstrates leadership and initiative

Riccio & Sakata, n.d.; Cottell & Millis, 1992; Berry, 1993; Albrecht et al., 1994; Adler & Milne, 1995; Adler & Milne, 1997; Albrecht & Sack, 2000; Rooff-Steffen, 1991, as quoted in Thomas 2000; Foster & Lepard, 2003; IFAC, 2006; Race, 2001, as quoted in Gammie & Matson, 2007; Beard, Schweiger & Surendran, 2008; Ballintine & McCourt Larres, 2009; IFAC, 2010; Paulson, 2011; Avramenko, 2012; Low et al., 2013.

(IB) 3. Maintains and demonstrates competence and recognises limits

Adler & Milne, 1995; Davey et al., 1999; Paulson, 2011; Slavin, 1996 as quoted in Everaert & Opdecam, 2012; Hu et al., 2013. (IB) 4. Strives to add value in an innovative manner

Adler & Milne, 1995; Adler & Milne, 1997; Cheetham & Chivers, 2001; Davis et al., 2001; Dyball et al., 2010; Maesin et al., 2010; Paulson, 2011.

(IB) 5. Manages change

Adler & Milne, 1995; Adler & Milne, 1997.

(IB) 6. Treats others in a professional manner

Adler & Milne, 1995; AECC, 1998; Davis et al., 2001; Miglietti, 2002; Foster & Lepard, 2003; IFAC, 2006; Gammie & Matson, 2007; Mitchell, 2008; Ballintine & McCourt Larres, 2009; Stainbank, 2009; Dyball et al., 2010; Maesin et al., 2010; HKICPA, 2011; Paulson, 2011; Brown, Parente & Stephan, 2012; Everaert & Opdecam, 2012.

(IB) 7. Understands the national and international environment

Berry, 1993; Adler & Milne, 1995; Adler & Milne, 1997; Davey et al., 1999; Davis et al., 2001; Stainbank, 2009; Dyball et al., 2010; Stainbank, 2010; Paulson, 2011; Avramenko, 2012; Brown et al., 2012; Marsden & Stanley, 2013; Van der Merwe, 2013.

(IB) 8. Is a life-long learner

Adler & Milne, 1995; AECC, 1998; Anderson & Cunningham, 2005; Institute of Chartered Accountants of Ireland (ICAI), 2009; ICAI, 2010; SAICA, 2011; Jones, 2013.

(IB) 9. Works effectively as a team member

Riccio & Sakata, n.d.; Berry, 1993; Albrecht et al., 1994; Adler & Milne, 1995; AAA, 1995; AECC, 1995; Sullivan, 1996; Adler & Milne, 1997; AECC, 1998; Davey et al., 1999; Rooff-Steffen, 1991, as quoted in Thomas 2000; Davis et al., 2001; Cargill et al., 2002; Miglietti, 2002; Foster & Lepard, 2003; Jayaprakash, 2005; IFAC, 2006; Race, 2001, as quoted in Gammie & Matson, 2007; Beard et al., 2008; Mitchell, 2008; Ballintine & McCourt Larres, 2009; Ramsay, Hanlon & Smith, 2000 as quoted in Stainbank, 2009; Dyball et al., 2010; IFAC, 2010; Maesin et al., 2010; SAICA, 2011; HKICPA, 2011; Paulson, 2011; Brown et al., 2012; Everaert & Opdecam, 2012; Van der Merwe, 2013.

(IB) 10. Manages time effectively

Berry, 1993; AECC, 1995; Adler & Milne, 1997; Gammie & Matson, 2007; Everaert & Opdecam, 2012; Van der Merwe, 2013.



(Table 5.1 continued)

(IC) PROFESSIONAL SKILLS

(IC) 1. Obtains information

Berry, 1993; Adler & Milne, 1995; Adler & Milne, 1997; Davey et al., 1999; Davis et al., 2001; Foster & Lepard, 2003; Anderson & Cunningham, 2005; Stainbank, 2010; Paulson, 2011; Rainsbury & Malcolm, 2003 as quoted Hu et al., 2013; Van der Merwe, 2013. **(IC) 2. Examines and interprets information and ideas critically**

Berry, 1993; Adler & Milne, 1995; AAA, 1995; AECC, 1995; Gainen, 1983, as quoted in Kimmel, 1995; Sullivan, 1996; Adler & Milne, 1997; Davis et al., 2001; Foster & Lepard, 2003; Anderson & Cunningham, 2005; Jayaprakash, 2005; Ballintine & McCourt Larres, 2009; Maesin et al., 2010; Stainbank, 2010; HKICPA, 2011; Paulson, 2011; Avramenko, 2012; Everaert & Opdecam, 2012; Hu et al., 2013.

(IC) 3. Solves problems and makes decisions

Riccio & Sakata, n.d.; Berry 1993; Albrecht et al., 1994; Adler & Milne, 1995; AAA, 1995; AECC, 1995; Adler & Milne, 1997; AECC, 1998; Rooff-Steffen, 1991, as quoted in Thomas 2000; Davis et al., 2001; Miglietti, 2002; Foster & Lepard, 2003; Anderson & Cunningham, 2005; IFAC, 2006; Race, 2001, as quoted in Gammie & Matson, 2007; Ballintine & McCourt Larres, 2009; IFAC, 2010; Brown, 2008, as quoted in Maesin et al., 2010; Stainbank, 2010; HKICPA, 2011; Paulson, 2011; Brown et al., 2012; Everaert & Opdecam, 2012; Marsden & Stanley, 2013.

(IC) 4. Communicates effectively and efficiently

Riccio & Sakata, n.d.; Cottell & Millis, 1992; Berry, 1993; Albrecht et al., 1994; Adler & Milne, 1995; Adler & Milne, 1997; AECC, 1998; Rooff-Steffen, 1991, as quoted in Thomas 2000; Cheetham & Chivers, 2001; Davis et al., 2001; Cargill et al., 2002; Miglietti, 2002; Foster & Lepard, 2003; Jayaprakash, 2005; IFAC, 2006; Race, 2001, as quoted in Gammie & Matson, 2007; Ballintine & McCourt Larres, 2009; Stainbank, 2009; IFAC, 2010; Brown, 2008, as quoted in Maesin et al., 2010; Stainbank, 2010; HKICPA, 2011; Paulson, 2011; SAICA, 2011; Avramenko, 2012; Brown et al., 2012; Hu et al., 2013; Van der Merwe, 2013.

(IC) 5. Manages and supervises

Riccio & Sakata, n.d.; Albrecht et al., 1994; Adler & Milne, 1997; Thomas 2000; IFAC, 2006; Gammie & Matson, 2007; Stainbank, 2009; IFAC, 2010; Paulson, 2011; Avramenko, 2012.

(IC) 6. Understands how IT impacts a CA's daily functions and routines

Berry, 1993; Davis et al., 2001; Chapman & DeBerg, 2012; Van der Merwe, 2013.

(IC) 7. Considers basic legal concepts

Marsden & Stanley, 2013.

The above summary provides evidence that all 25 (eight IA, ten IB and seven IC) of SAICA's pervasive skills can be developed using collaborative learning exercises as each competency is linked to one or more accounting source. Given this knowledge, if academics were to employ this method in their academic programmes, they could similarly address all 25 pervasive skills.

5.2 Empirical Findings

5.2.1 Academics' Views On The Use Collaborative Learning Exercises During Their Academic Programmes

In the first section, academics were asked to indicate whether they use collaborative learning exercises in their academic programmes for development. The data analysis of this question is set out in Table 5.2 below, and is based on the use of collaborative learning exercises subsequent to SAICA releasing its CF. This is indicated by the number of participants who noted that they use collaborative learning exercises and is presented in the "applied" column. A percentage has been calculated, using the applied column, which represents the percentage of participants who indicated that they use this method.

Table 5.2: Academics' Views On Their Use Of Collaborative Learning Exercises After SAICA Introduced The CF:

	Applied	%	n
The use of collaborative learning exercises for purposes of development	55	37.4	147
Key: Applied = number of academics who use collaborative learning exercises,	% = percent	tage of acaden	nics who use
collaborative learning exercises, n = number of participants who answered the question	1		

Given the findings of the literature review, it would be expected that more academics would employ collaborative learning exercises in their academic programmes (Table 5.1). One possible explanation for the above results is that academics use methods other than collaborative learning exercises that are also effective in addressing pervasive skills. This is indicative in a comment made by one of the participants that "there is a need for a platform for lecturers to share methods or techniques that they have found to be successful in terms of delivering pervasive



skills to students, especially in larger classes". Therefore, it needs to be ascertained why academics are not using collaborative learning exercises and which methods they are using to develop the pervasive skills.

5.2.2 Academics' Views On The Use Of Collaborative Learning Exercises To Develop Categories IA, IB And IC Of The Pervasive Skills

In the second section, the views of academics were sought on whether collaborative learning exercises can be applied in the development of category IA, IB and IC. The data analysis of this question is set out in Table 5.3 below, and is based on whether academics hold that collaborative learning exercises can be applied in the development of the three categories of pervasive skills. A percentage has been calculated based on the applied column, representing the percentage of participants who indicated that this method could be applied in the development of each category.

Table 5.3: Academics' Views On The Whether Collaborative							
Learning Exercises Can Be Applied In The Development Of Category IA, IB And IC:							
	IA		IB		IC		
	Applied	%	Applied	%	Applied	%	n
	Appneu	70	Appneu	70	Applica	/0	11

Key: Applied = number of academics who indicated that collaborative learning exercises can be applied; % = percentage of academics who indicated that collaborative learning exercises can be applied; n = number of participants who answered the question

From the results above, more academics indicated that collaborative learning exercises could be used in the transfer of category IB and IC of the pervasive skills (Table 5.3) than academics who actually employ this method (Table 5.2). Therefore, these results suggest the possible further employment of collaborative learning exercises in the academic programmes.

It was interesting to note that academics' indicated that collaborative learning exercises can be applied more effectively when addressing category IB compared to the other two categories. Furthermore, considerably more academics indicated that category IC can be addressed using collaborative learning exercises than category IA. Therefore, it needs to be ascertained why academics view that collaborative learning exercises can more effectively address category IB and IC of the pervasive skills.

Also thought-provoking, was that one academic was of the opinion that pervasive skills could only be developed after the academic programme by remarking, "I believe most of the pervasive skills are only acquired or developed during practical experience". This view was shared by another academic who said, "Whilst doing articles you learn the most and the best is that it is real life scenario's happening every day". Therefore, academics should create collaborative learning "practical experience" scenarios where students can replicate "real life scenarios".

5.2.3 Academics' Views On Other Factors Impacting The Development Of Pervasive Skills

In the third section, academics were asked to indicate whether active participation by students is required in the development of pervasive skills. The data analysis of this question is set out in Table 5.4 below. A five-point Likert scale was used by participants to rate the statements presented below: 1 = don't agree at all; 2 = agree to a lesser extent; 3 = agree to a moderate extent; 4 = agree to a large extent; and 5 = agree completely.

	1	2	3	4	5	n	Μ	Md	SD
Active participation by students during class is essential in ensuring students develop pervasive skills	3	10	21	54	55	143	4.03	4.00	1.003
Active participation by students during collaborative learning exercises is essential in ensuring students	2	5	14	56	66	143	4.25	4.00	0.876
develop pervasive skills									

Key: M = Mean; Md = Median; and SD = Standard deviation

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The majority of academics (76%) either "agreed completely" or "agreed to a large extent" that active participation by students during class is essential in ensuring that students develop competencies. Similarly, the majority of academics (85%) also either "agreed completely" or "agreed to a large extent" that active participation during collaborative learning exercises ensures that students are equipped with competencies. These findings are consistent with the views reflected in the literature review that active participation by students results in the transfer of pervasive skills. Therefore, it is imperative that academics act as facilitators during collaborative learning exercises, and allow students to be active participants during the learning process.

6. CONCLUSIONS, RECOMMENDATIONS AND FURTHER RESEARCH

There is a need for academics to go beyond the teaching of merely technical skills and to produce aspirant CAs who are capable of entering the work environment. The first objective of this paper was to determine whether collaborative learning exercises could effectively develop pervasive skills. A summary of the literature review was used to fulfil this objective. In the summary, it was found that collaborative learning exercises are effective in the development of all pervasive skills as each competency was linked to one or more accounting source. It was posited that academics cannot completely prepare accounting graduates for all the pervasive skills that they will require in their work and personal spheres, but that academics can definitely enhance the attainment of these competencies (Mohammed & Lashine, 2003, as quoted in Low et al., 2013). Consequently, this study provides one method that can enhance the development of pervasive skills to students.

The second objective was to provide empirical evidence, by means of a questionnaire, on the extent to which academics used collaborative learning exercises and how effective they viewed this method to be in transferring pervasive skills to students. Firstly, the empirical results indicated that some academics employ collaborative learning exercises in their academic programmes. However, based on the literature review, it was expected that more academics would use this method and deem it effective as it can be employed in the development of all pervasive skills. From this, is it clear that a greater awareness needs to be created among academics on the effectiveness of collaborative learning exercises in developing pervasive skills. An academic remarked that there is a need for lecturers to work together to find methods that are successful in developing pervasive skills. Consequently, there is potential for academics to work in collaboration with each other and with member bodies on methods that can result in the transfer of pervasive skills to students. Furthermore, academics should create practical collaborative learning experiences that replicate real working environments, where students are active participants in the learning process. An academic's role as facilitator is also pivotal to the collaborative learning exercise.

This study is particularly valuable to the SA situation given the adoption of the CF. It can also inform academics, both locally and internationally, on the effectiveness of collaborative learning exercises in transferring competencies, given that SAICA's pervasive skills are aligned to the competencies of other professional accounting bodies.

Further research is needed to establish why academics are not using collaborative learning exercises in their academic programmes. In addition, research should be conducted into why academics view that collaborative learning exercises can be more effectively address category IB and IC of the pervasive skills. This study could also be extended to include the effectiveness of other methods in transferring pervasive skills to students.

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REFERENCES

- Accounting Education Change Commission (AECC) (1990). Position Statement Number One: Objectives of education for accountants. Retrieved from: <u>https://aaahq.org/AECC/pdf/position/pos1.pdf</u> (accessed: 19 October 2011).
- Accounting Education Change Commission (AECC) (1995). Issues Statement Number Six: Transfer of academic credit for the first course in accounting between two-year and four-year colleges. Retrieved from: <u>http://aaahq.org/aecc/pdf/position/issues6.pdf</u> (accessed: 19 October 2011).
- Accounting Education Change Commission (AECC) (1998). The accounting education change commission grant experience: A summary. Retrieved from: <u>https://aaahq.org/AECC/changegrant/cover.htm</u> (accessed: 19 October 2011).
- Adler, R.W., & Milne, M.J. (1995). Increasing learner-control and reflection: towards learning-to-learn in an undergraduate management accounting course. *Accounting Education*, 4(2):105-119.
- Adler, R.W., & Milne, M.J. (1997). Improving the quality of accounting students' learning through action-orientated learning tasks. *Accounting Education*, 6(3):191-215.
- Albrecht, W.S., Clark, D.C., Smith, J.M., Stocks, K.D., & Woodfield, L.W. (1994). An accounting curriculum for the next century. *Issues in Accounting Education*, 9(2):401-425.
- Albrecht, W., & Sack, R. (2000). *Accounting education: Charting the course through a perilous future*. Accounting Education Series, American Accounting Association, Sarasota, FL.
- American Accounting Association (AAA) (1986). The Bedford Report, Future accounting education: Preparing for the expanding profession. Retrieved from: <u>https://aaahq.org/AECC/future/index.htm</u> (accessed: 31 May 2013).
- American Accounting Association (AAA) (1989). Perspectives on Education: Capabilities for success in the accounting profession. Retrieved from: <u>https://aaahq.org/AECC/big8/cover.htm</u> (accessed 31 May 2013).
- American Accounting Association (AAA) (1995). Intentional learning: A process for learning to learn in the accounting curriculum. Retrieved from: <u>https://aaahq.org/AECC/intent/cover.htm</u> (accessed: 19 October 2011).
- American Accounting Association (AAA) (1999). *The Accounting Education Change Commission: Its history and impact. Sarasota, United States of America:* The Accounting Education Change Commission and American Accounting Association.
- Anderson, S.C., & Cunningham, N.A. (2005). A bridge to FARS and information literacy for accounting undergraduates. *Journal of Business and Finance* Librarianship, *10*(*3*):*3-16*.
- Avramenko, A. (2012). Enhancing students' employability through business simulation. *Education and Training*, 54(5):355-367.
- Barac, K. (2009). South African training officers' perceptions of the knowledge and skills requirements of entrylevel trainee accountants. *Meditari Accountancy Research*, 17(2):19-46.
- Ballantine, J., & McCourt Larres. P. (2009). Accounting undergraduates' perceptions of cooperative learning as a model for enhancing their interpersonal and communication skills to interface successfully with professional accountancy education and training. *Accounting Education: An International Journal*, 18(4-5):387-402.
- Beard, D., Schweiger, D., & Surendran, K. (2008). Integrating soft skills assessment through University, College, and Programmatic Efforts at an AACSB Accredited Institution. *Journal of Information Systems Education*, 19(2):229-240.
- Beattie, V., Collins, B., & McInnes, B. (1997). Deep and surface learning: a simple or simplistic dichotomy? Accounting Education: An International Journal, 6(1):1-12.
- Berry, A. (1993). Encouraging group skills in accountancy students: an innovative approach. *Accounting Education*, 2(3):169-179.
- Boyce, G., Kelly, A., Williams, S., & Yee, H. (2001). Fostering deep and elaborative learning and generic (soft) skill development: the strategic use of case studies in accounting education. *Accounting Education*, 10(1):37–60.
- Brown, R.C., Parente, D.H., & Stephan, J.D. (2012). Facilitating the acquisition of strategic skills The role of traditional and soft managerial skills. *Management Research Review*, 35(11):1004-1028.
- Brungardt, C.J. (2009). College graduates' perceptions of their use of teamwork skills: soft skill development in Fort Hays State University Leadership Education. Doctoral Thesis, Kansas State University.

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- Cargill, E., Gammie, B., & Gammie, E. (2002). Personal skills development in the accounting curriculum. *Accounting Education*, *11*(*1*):63-78.
- Cargill, E., Gammie, E., & Hamilton, S. (2010). Searching for good practice in the development and assessment of non-technical skills in accountancy trainees a global study. Aberdeen, Scotland: The Robert Gordon University.
- Chapman, K.J., & DeBerg, C.L. (2012). Assessing student performance and attitudes based on common learning goals and alternative pedagogies: The case of principles of financial accounting. *Academy of Educational Leadership Journal*, *16:63-79*.
- Cheetham, G., & Chivers, G. (2001). How professionals learn in practice: an investigation of informal learning amongst people working in professions. *Journal of European Industrial Training*, 25(5):247-292.
- Clinton, B.D., & Kohlmeyer, J.M. (2005). The effects of group quizzes on performance and motivation to learn: Two experiments in cooperative learning. *Journal of Accounting Education*, 23(2):96-119.
- Coetzee, S., Joubert, B., & Oberholzer, R. (2009). Tax topics a trainee chartered accountant should be taught: a survey of perceptions in and outside public practice. *Meditari Accountancy Research*, 17(1):15-31.
- Cottell, P.G., & Millis, B.J. (1992). Cooperative learning in Accounting. *Journal of Accounting Education*, 10:95-111.
- Cotton, W.D.J., Rainsburg, E., & Scott, G. (2002). Competency based professional accounting certification in New Zealand. Article presented at the American Accounting Association Conference, Ohio. Email to: mstrauss@uj.ac.za, from: Bill.Cotton@nzica.co (dated 29 November 2011).
- Creswell, J.W. (2011). *Educational research: planning, conducting, and evaluating quantitative and qualitative research*. Boston: Pearson Education Inc.
- Davey, H., Haigh, N., & Kelly, M. (1999). Contemporary accounting education and society. *Accounting Education*, 8(4):321-340.
- Davis, H.H., Dudley, L.W., & McGrady, D.G. (2001). Using an investment project to develop professional competencies in Introduction to Financial Management. *Journal of Education for Business, January/February 2001:125-131*.

De Villiers, R. (2010). The incorporation of soft skills into accounting curricula: preparing accounting graduates for unpredictable futures. *Meditari Accountancy Research*, 18(2):1-22.

- Drennan, L., & Kavanagh, M.H. (2008). What skills and attributes does an accounting graduate need? Evidence from student perceptions and employer expectations. *Accounting and Finance, 48:279-300.*
- Dyball, M.D., Reid, A., Ross. P., & Schoch, H. (2010). Compulsory group work accounting students' conceptions and suggestions. *Asian Review of Accounting*, 18(2):92-105.
- Economic and Social Research Council (2012). Advantages and disadvantages of online questionnaires. Retrieved from: <u>http://www.restore.ac.uk/orm/questionnaires/quesads.htm</u> (accessed 10 February 2012).
- Eiselen, R., & Nkoutchou, H. (2012). Retirement saving behaviour of young adults in the financial services sector. Journal of Economic and Financial Sciences, 5(1):31-48.
- Everaert, P., & Opdecam, E. (2012). Improving student satisfaction in a first-year undergraduate accounting course by team learning. *Issues in Accounting Education*, 27(1):53-82.
- Foster, A.G., & Lepard, D.H. (2003). Powerful leadership development. California: Corwin Press, Inc.
- Francis, G., & Samkin, G. (2008). Introducing a learning portfolio in an undergraduate financial accounting course. *Accounting Education: An International Journal*, *17*(3):233-271.
- Frank, G., Gradisher, S., & Ofobike, E. (2010). Teaching business ethics: A quandary for accounting educators. *Journal of Education for Business*, 85:132-138.
- Gammie, E., & Joyce, Y. (2009). Competence-based approaches to the assessment of professional accountancy training work experience requirements: The ICAS experience. *Accounting Education: An International Journal*, *18*(4-5):443-466.
- Gammie, E., & Matson, M. (2007). Group assessment of final degree level: An evaluation. *Accounting Education: An International Journal*, *16*(2):185-206.
- Hong Kong Institute of Certified Public Accountants (HKICPA) (2011). Information paper on enhancements. Retrieved from: <u>http://app1.hkicpa.org.hk/oldsite/students(NEW)/download/qp/info_paper.pdf</u> (accessed: 19 October 2011).
- Houghton, T., & Proscio, T. (2001). *Hard work on soft skills: Creating a "culture of work" in workforce development*. A publication of Public/Private Venues, New York.



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- Hu, B., Kern, T., McGuigan, N., & Weil, S. (2013). Using asynchronous discussion forums to create social communities of practice in financial accounting. *Pacific Accounting Review*, 25(1):30-57.
- Institute of Chartered Accountants of Ireland (ICAI) (2009). Chartered Accountants Ireland Competency Statement CA Proficiency 1. Retrieved from:

http://www.charteredaccountants.ie/Global/syllabus/CAP1%20Competency%20statement%20%202009%2 02010.pdf (accessed: 28 July 2010).

- Institute of Chartered Accountants of Ireland (ICAI) (2010). New Syllabus. Retrieved from: <u>http://www.charteredaccountants.ie/Students/Student-Services/Courses/New-Syllabus/</u> (accessed: 28 July 2010).
- International Federation of Accountants (IFAC) (2006). Approaches to the development and maintenance of professional values, ethics and attitudes in accounting education programmes. Retrieved from: <u>http://www.accountingweb-cgi.com/whitepapers/approaches_to.pdf</u> (accessed: 29 September 2011).
- International Federation of Accountants (IFAC) (2010). Handbook of International Education Pronouncements. Retrieved from: <u>http://web.ifac.org/publications/international-accounting-education-standards-board/handbook (accessed: 23 September 2010).</u>
- International Federation of Accountants (IFAC) (2014). Member bodies. Retrieved from: http://www.ifac.org/aboutifac/membership/members (accessed 3 September 2014).
- Jayaprakash, J.C.M. (2005). Strategies in teaching accounting in higher education. Retrieved from: <u>http://otl.curtin.edu.au/tlf/tlf2005/refereed/jayaprakashj.html (accessed: 18 August 2011).</u>
- Jones, J.P. (2013). The impact of the supplemental instruction leader on student performance in introductory accounting. *American Journal of Business Education*, 6(2):247–254.
- Kermis, G., & Kermis, M. (2010). Professional presence and soft skills: a role for accounting education. *Journal of Instructional Pedagogies, 2:1-10.*
- Kimmel, P. (1995). A framework for incorporating critical thinking into accounting education. *Journal of Accounting Education*, 13(3):299-318.
- Lehmann, C.M., Rose, A.M., & Strand Norman, C. (2004). Cooperative learning: resources from the business disciplines. *Journal of Accounting Education*, 22:1-28.
- Low, M., Samkin, G., & Liu, C. (2013). Accounting education and the provision of soft skills: Implications of the recent NZICA CA academic requirement changes. *E-journal of Business Education and Scholarship of Teaching*, 7(1):1-33.
- Maesin, A., Mansor, M., Nayan, S., Osman, N., & Shafie, L.A. (2010). The practice of collaborative learning among lecturers in Malaysia. *Management Science and Engineering*, 4(2):115-123.
- Marsden, S., & Stanley, T. (2013). Accountancy capstone: Enhancing integration and professional identity. *Journal* of Accounting Education, 31:363-382.
- Marx, B. (2008). An analysis of the development, status and functioning of audit committees at large listed companies in South Africa. Doctoral Thesis, University of Johannesburg.
- McVay, G.J., Murphy, P.R., & Wook Yoon, S. (2008). Good practices in accounting education: Classroom configuration and technological tools for enhancing the learning environment. *Accounting Education: An International Journal*, 17(1):41-63.
- Miglietti, C. (2002). Using cooperative small groups in introductory accounting classes: A practical approach. Journal of Education for Business, November/December 2002:111-115.
- Mitchell, G.W. (2008). Essential soft skills for success in the twenty-first century workforce as perceived by the Alabama Business/Marketing educators. Doctoral Thesis, Auburn University.
- Oxford Dictionary (2014a). Definition of soft skills. Retrieved from: <u>http://www.oxforddictionaries.com/definition/english/soft-skills?q=soft+skills</u> (accessed: 6 October 2014.
- Oxford Dictionary (2014b). Definition of collaborative. Retrieved from: <u>http://www.oxforddictionaries.com/definition/english/collaborate?q=collaborating+with</u> (accessed: 6 October 2014).
- Paulson, E. (2011). Group communication and critical thinking competence development using a reality-based project. *Business Communications Quarterly*, 74(4):399-411.
- Riccio, E.L., & Sakata, M.C.G. (n.d). Teaching learning methods in accounting education: An empirical research in the Brazilian scenario. Retrieved from: <u>http://www.tecsi.fea.usp.br/riccio/tac/pdf/IAAER45.pdf</u> (accessed 18 August 2011).



South African Institute of Chartered Accountants (SAICA) (2009). Competency Framework. Competencies of a Chartered Accountant (SA) at entry point to the profession. Retrieved from:

<u>http://saica.co.za/Portals/0/Documents/CompetencyframeworkCAs.pdf</u> (accessed 8 March 2010).
South African Institute of Chartered Accountants (SAICA) (2011). Accreditation Criteria. Applications for new and continued accreditation. Email to: mstrauss@uj.ac.za, from: mandio@saica.co.za, 29 September 2011.

- South African Institute of Chartered Accountants (SAICA) (2012). List of SAICA accredited programmes 2012", Retrieved from: https://www.saica.co.za/Portals/0/LearnersStudents/documents/List%20of%20 accredited%20programmes%202012.pdf (accessed 30 March 2012).
- Stainbank, L.J. (2009). Working in teams: improving the team experience. *Meditari Accountancy Research*, 17(1):69-80.
- Stainbank, L.J. (2010). Students' perceptions of the usefulness of an accounting project in acquiring accounting knowledge and professional skills. *SA Journal of Accounting Research*, 24(1):79-100.
- Sullivan, E.J. (1996). Teaching financial statement analysis: a cooperative learning approach. *Journal of Accounting Education, 14(1):107-111.*
- Sundem, G.L (1999). *The Accounting Education Change Commission: Its history and impact*. The Accounting Education Change Commission and American Accounting Association, Sarasota, United States of America.
- Stovall, D.C., & Stovall, P.S. (2009). Professional Accountants: Void of "soft skills"? *The Business Review Cambridge*, 14(1):99-104.
- Thomas, T.A. (2000). A teaching environment for learning soft skills applicable to Information Systems Development. Doctoral Thesis, University of Pretoria.
- Van der Merwe, N. (2013). An evaluation of an integrated case study and business simulation to develop professional skills in South African Accountancy Students, *International Business and Economics Research Journal*, 12(10):1137-1156.
- Van der Schyf, D.B. (2008). Five recent developments' impact on the traditional academic culture of departments of accounting at South African universities. *Meditari Accountancy Research*, 16(2):1-12.



APPENDIX

LIST OF ABBREVIATIONS AND ACRONYMS

AAA	American Accounting Association
AECC	Accounting Education Change Commission.
CA	Chartered Accountant
CF	Competency Framework
HKICPA	Hong Kong Institute of Certified Public Accountants
IA	Category of pervasive skills: Ethical behaviour and professionalism
IB	Category of pervasive skills: Personal attributes
IC	Category of pervasive skills: Professional skills
ICAI	Institute of Chartered Accountants in Ireland
IFAC	International Federation of Accountants
SA	South Africa
SAICA	South African Institute of Chartered Accountants
URL	Uniform Reference



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