

Skills and Attributes Needed for Success in Accounting Career: Do Employers' Expectations Fit with Students' Perceptions? Evidence from Tunisia

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Abstract

Purpose – The aim of this article is to examine perceptions and expectations of two major stakeholders: students and employers of the importance of skills and attributes for securing entry-level employment in accounting.

Design/methodology/approach – The authors conduct an empirical study using a list of 78 items, starting by comparing employers' expectations with students' perceptions concerning the set of technical and non technical skills required from accounting graduates to pursue a career in the accounting profession This study involving data collection from 81 accounting students in five business schools in Tunisia and 48 practitioners.

Findings – Findings indicate that employers are seeking graduates who possess a diverse range of non-technical skills. However, accounting students perceive that it is rather technical skills which determine their abilities to pursue a career in the accounting profession.

Practical implications – The paper's findings are of interest to several different parties, primarily the *professional accounting body*, universities and students.

Originality/value – The paper describes an empirical study, conducted on a developing country, which provides a better understanding of new skills expected for future accountants in this changing business environment. The paper constitutes also a meaningful contribution to the accounting education literature, as it examines an interesting subject that has not yet been investigated in the Tunisian context.

Keywords: accounting education, technical skills, generic skills, Tunisia

1. Introduction

The last two decades have been marked by the internationalization of the world economy and the emergence of new information technologies. This phenomenon has triggered a widespread awareness, reflected by the human capital theory, which supposes that employees play an important role and give the company a sustainable competitive advantage. Therefore, human capital constitutes an attractive source of organizational performance. The job of the accountant seems to be at the heart of this logic. Indeed, these change drivers have had major impacts on the quality of the accounting work which lead accountants to develop new skills (Bescos, 2002; Albrecht and Sack, 2000). New global business models have meant the role of the traditional accountant (De Lange, and Guf Jackling, 2006). Traditionally considered as a score-keeper, a bean counter and a corporate cop (Siegel, 2000), the accountant must be now regarded as a professional with a sense of leadership, able to manage a team and to exercise a rigorous and transparent judgement in several situations (Williams, 1994; Bescos, 2002; Howieson, 2003; Jones and Abraham, 2009). As a result, employers / recruiters are seeking a diverse range of skills and attributes in new accounting graduates (Wells et al., 2009; Kavanagh and Drenan, 2008). In this context, Birrell (2006) suggests that the managerial needs to take quick action and to maintain the competitive position, pushed employers to model a new accounting graduate profile with a large range of technical and generic skills. However, it seems that accounting students are generally unaware of the new skills currently expected for future accountants in this highly changeable global business context. Recently, the accounting education worldwide has been the subject of much debate. Several researchers argue that accounting graduates are ill-equipped to begin professional practice (Albin and Crockett, 1991; Van Wayhe, 1994 West, 1998, Hall,

1998; Albrecht and Sack, 2000; Mathews, 2001, and Mohamed Lashine, 2003). Others suggest that higher education accounting must meet employers' expectations in terms of learning and professional development (Albrecht and Sack, 2000; Chabrow and Hayes, 2001; Forristal, 2002). Hence, the challenge for the accounting education system is to build graduate attributes within and across programmes.

This explains the studies conducted by several researchers to identify accounting education deficiencies and to recommend changes in course emphasis (Albrecht and Sack, 2000; Birkett, 1993; Mathews *et al.*, 1990). Also, accounting programmes are being revised to provide adequate training for future accountants in the United States, Australia, Spain, France, the UK and still in Tunisia. Hassel *et al.* (2005) argue that these reforms aim to improve the quality of education and to reduce the expectations gap between students' perceptions and employers' expectations.

This study addresses the following research questions:

- What skills do employers expect of accounting graduates at recruitment, in training and in ongoing accounting employment?
- What professional skills do graduating accounting students perceive as having the highest priority for career success?

The objective of this paper is to test this quote in a developing country: Tunisia. This country is located on the Mediterranean coast of North Africa. Since 1995, Tunisia has joined the World Trade Organization and has chosen, therefore, to liberalize its economy and to open it to financial and technology transfers coming particularly from developed countries.

Thus, this new economic environment has led to increase competition between companies and has put pressure on the Tunisian labor market, which obviously failed to follow the needs of the economy. This fact explains the relatively high level of unemployment in the country (18.3%) (Note 1). Furthermore, the specificity of unemployment in Tunisia is affecting the majority of graduates (30.9%) (Note 2). Further, the university has been accused of not understanding employer expectations of desirable entry-level operations management skills. To remedy this situation, the public authority in Tunisia has implemented a reform to bring closer the curriculum to employers needs. As consequence, a decree dated July 13, 2005 launched the regime BMD (Bachelor - Master - Doctorate) in Tunisia. This system, which was set up to follow the World Bank recommendations' was inspired by the Anglo-Saxon educational system, adopted also by the European Union since the process of Bologna (1999). Moreover, the particularity of this device is that it provides a "Bachelor degree", which continues for a period of three years after the high school diploma, designed to meet the needs of labor market. The training of future accountants in Tunisia is in most cases, under these licenses applied.

We assume in this paper that skills expected for future accountants constitute a standard that should guide the educational behaviour of students who choose to follow accounting program. Thus, employers' expectations may shape the accounting student motivation and implementation of a rigorous strategy that facilitate the acquisition of skills and attributes (through internships) from his passage by the university. This logic is consistent with *career development theories* that attempt to explain students' perceptions. According to these theories, individuals can influence their career progress by adopting behavioural strategies and by developing the relational dimension and skills deemed important by employers, in order to facilitate their career success. Herewith, this paper is organized as follows: the second section will focus on the literature review. The third section is devoted to the formulation of hypotheses. The fourth describes the methodology. Results and interpretations will be presented in the fifth section.

2. Literature Review

The portfolio of an accounting graduate skills is composed of multiple knowledge and skills acquired throughout the university curriculum and consolidated by the practice. Indeed, technical skills enable the professional accountant to conduct his work effectively and to satisfy his employer or client. According to IES 3 "professional skills"(Note 3), technical and functional skills consist of general skills as well as skills specific to accountancy. They include: (a) numeracy (mathematical and statistical applications) and IT proficiency; (b) decision modeling and risk analysis; (c) measurement; (d) reporting; and (e) compliance with legislative and regulatory requirements.

Furthermore, the expansion of the skills base in higher education accounting programs has been suggested as a way to provide accountants more flexibility and adaptability given the continuous evolution of the labor market (Chaker and Abdullah, 2012, Daff *et al.*, 2012). Many studies suggest that the gap between education and practice is widening requiring curriculum change (Bowden and Masters, 1993; Albrecht and Sack, 2000). In fact,

competitive pressures and technology evolution have led to expectations that accounting graduates prove additional skills to suit to new challenges (Bowden et al., 2000). Besides technical capacities, business appears to expect more and more generic skills such as personal qualities, interpersonal and intellectual. These attributes “*are more related to personality and can be worth in various functions. (i.e. leadership, initiative)*” (Note 4). These requirements have influenced, since the 1990’s, the professional bodies in developed countries which, in turn, proposed to include these skills in the accounting higher education programs (Jackling and De Lange, 2009). Previous studies often show that these skills have not the same weight in the labor market of accountants. In fact, technical competencies are still regarded as implicit in the skills set of an entry-level graduate. De Lange et al. (2006) suggest that it is ‘personal characteristics’ that enable career success. As for the employers, it seems that they agree that generic skills are more added-value to the company. To explain this finding, Hunton (2002) indicates that many traditional accounting tasks have become automated, which allows to claim that the value of professional accountant is now in generic skills. Even more, it has been shown that employers consider the technical capabilities, directly related to the accounting profession, as implicit and obvious.

In other terms, they assume their availability in the skill set required for a career in as an accountant (Albrecht and Sack, 2000). In the same vein, studies conducted by Birkett (1993), ICAEW (1996) and the AICPA (1999) and sponsored by accounting standard setters in Australia, United Kingdom and even the United States have identified capabilities and skills desired by professional accountants/recruiters. In fact, results show that beyond the technical functional skills, professional accountants require general business skills and personal skills (such as communication, leadership, creative and critical thinking) and interpersonal skills (i.e. the ability to adapt to change and work in different contexts). These skills are very important because they “enable the professional accountant to make successful use of the knowledge gained through education” (IFAC, 1996, p.16). Based on our review of the literature, it appears that employers are interested in motivated graduates (Kim et al, 1993) who are able to solve real problems (Novin and Pearson, 1989; ACNielsen Research Services, 2000, Hunton, 2002; Burnett, 2003; Lashin and Mohamed, 2003; DiGabriele, 2008) and with a large capacity of communication and analysis, (Morgan, 1997; Gammie et al., 2001, Hunton, 2002; Lashine and Mohamed, 2003; Burnett, 2003; DiGabriele, 2008).

In addition, other generic skills could be considered by employers as key criteria in the recruitment of new accounting graduates, such as oral, written communication, listening skills (Novin and Pearson, 1989; Kim et al., 1993, Simons et al. 1995; Blaszczyński, 1999 ACNielsen Research Services, 2000, Hassall et al., 2005 and Borzi and Mills, 2001) and teamwork (Blaszczyński, 1999; ACNielsen Research Services, 2000; Borzi and Mills, 2001; Hassall et al., 2005). Moreover, it seems that these criteria are often desired. In fact, employers / recruiters believe that new graduates are ill-equipped in terms of leadership and skills related to communication and teamwork (Jackling and De Lange, 2009). Besides, previous researches have attempted to examine accounting students’ perceptions’ concerning skills needed to make a successful career. Although, several studies found that students ranked technical as the most important to ensure career success (Daly and McCroskey, 1975 Rebel, 1985; Usoff and Feldman, 1998, Hunt et al., 2004; Jones and Abraham, 2008; Ameen et al., 2010). This result does not seem to be counter-intuitive, since the subjects taught in business schools (accounting, finance, business law,...) are often transmitting technical skills and attributes.

Even more, it was often found that teachers do not consider generic skills as important for accounting practice (Hunt et al., 2004, Wells et al., 2009). It follows that emphasis placed by universities on technical skills is more pronounced. This fact led to another phenomenon, which is not less harmful to the accounting profession: students who choose accounting as major are no longer the best (Albrecht and Sack, 2000). We believe that this observation is still true in the Tunisian context. In fact, the Tunisian university is known for its isolation from the professional environment. Moreover, unlike universities in developed countries (belonging to the OECD), in the Tunisian business schools, there is no relay (career center, *job fairs* or alumni associations) that allow students to anticipate the real needs of recruiters in the accounting field, especially in term of generic skills. On the other hand, Accounting standard setting bodies do not attempt to exercise pressure on the Tunisian schools of business in raising awareness about the importance of such skills (Note 5). According to our assumptions, a gap may exist between employer expectations of employment skills and attributes, and student perceptions of those expectations (Francisco and Kelly 2002, Lin et al., 2005; Bui and Porter, 2008). This gap is -it justified? Gati (1998) and Arquero et al., (2001) suggest that employers may prioritize capabilities that are that are not developed in most accounting programs. As consequence, the mis-match between entry level graduates and the requirements of organizational environments is likely to see opportunities for new graduates become increasingly limited (Kavanagh et al., 2009). This view is supported by Leveson (2000) who states that the absence of a common vocabulary between education and professional environment widens the gap between

students' perceptions and employers' expectations.

3. Formulation of Hypotheses

From the above review of extant literature, it is clear that an expected marketable skill base gap existed between the expectations of employers and those of students. The following research hypotheses are addressed:

- 1) Employers will perceive that generic skills are more important than technical skills for obtaining an entry-level position.
- 2) Students will perceive that technical skills are more important than generic skills to begin professional practice.
- 3) There will be differences between employers and students in their perceptions of the importance of technical skills, and generic attributes.

4. Research Methodology

4.1 Sample

We conducted a study involving data collection from 92 graduating students in five schools of business in Tunisia and 82 practitioners across a number of organizations and audit firms which employ accounting graduates. A total of 81 usable responses were received from accounting students, giving a response rate of 91% (see Table 1). The final sample of practitioners comprised 48 professionals accountants (see Table 2), with a response rate of 58.53%. This level of response is typically seen as acceptable when using a survey method (Zikmund, 2000).

Table 1. Demographics of student respondents

Gender	Age groups			
	19-23	24-26	27-30	Over 30
Men	25	4	0	0
Women	44	7	1	0
Total	69	11	1	0

Table 2. Demographics of employer respondents

Experience	Total Number of Respondents	Certified Public Accountants	Chartered Accountants
Less than 5 years	16	11	5
Between 5 et 10 years	19	15	4
More then 10 years	13	4	9
Total	48	30	18

4.2 Measurement of Variables

The quantitative study involved the same survey being administered to accounting students (studying last level in Bachelor of Accounting) and practitioners certified public accountants (Note 7) and Chartered Accountants (Note 8)). In fact, the respondents were asked to nominate the skills that they deemed to be most important for job success in accounting. These questionnaires were administered during the period from March 2011 to June of the same year. The survey instrument was pilot-tested on a small group of students and practitioners to assess the instrument's face validity and clear up any ambiguity and wording issues.

The individual items for generic and technical skills and attributes were based on the literature (Albrecht and Sack, 2000; Gabric and McFadden, 2001; De Lange et al., 2006; Kavanagh et Drenan, 2008; Kerlan, 2000; Yaich, 2005; Goleman, 1999; Mathews et al., 1990) as well as on the Accounting Course Requirements in Tunisia. Minor refinements were made for the Tunisian context and to include points recommended by students and professionals through the qualitative phase (Note 6) which allows us to compile a list consisting of 78 items divided into seven categories: (1) Technical skills (accounting, financial and tax), (2) management skills, (3) IT skills, (4) Physical qualities, (5) Intellectual skills, (6) Interpersonal skills and (7) Personal skills. Thus, respondents were asked to rate 78 skills/attributes on a scale ranging from 1 (no priority) to 5 (top priority). All used items can be viewed by referring to Tables 2 and 4 which show together the results of the study. Data from

the questionnaires were analysed using spss version 18 for Windows.

4.3 Statistical Analysis Method

Among employers and students, we computed an overall mean total score for each factor. We assessed the internal consistency of the sets of questions within each factor using Cronbach's alpha (Cronbach, 1951; Hosmane et al., 2000). As seen in Table 3, the values of Cronbach's alpha ranged from 0.7 to 0.912, indicating strong internal consistency among items within each factor. To measure the dispersion of responses, we calculated the standard deviation and the coefficient of variation (CV). This coefficient (standard deviation / mean) would assess the level of consensus among the sample. According to Lapointe (1995, p.256), the consensus of respondents is: excellent if $CV < 15$, good if $15 < CV < 30$ and low if $CV > 30$. To determine whether employers (and students) valued generic skills significantly more than technical skills (Hypothesis 2 and 3), we compared the overall mean scores of personal, interpersonal and intellectual skills to the overall mean scores of technical skills using a one-tailed paired t-test.

In addition to hypothesis testing, rankings were developed that summarize the relative importance to employers of various generic skills, personality characteristics and technical skills. Similarly, rankings were produced on student perceptions of the importance of these skills and attributes.

5. Results

Our first research hypothesis was whether generic skills were more important than technical skills among employers. Results show (Table 3 and 4) that the overall mean score for various generic skills was higher than the overall mean score for technical abilities. To address hypothesis 2, whether students believed technical skills were more important than soft (generic) skills. We found that the students' overall mean score for technical skills was significantly higher than the mean score for generic abilities.

Our third research hypothesis was whether the overall scores for general business skills, technical skills, and personality characteristics would differ for employers and students. The t-test indicates that all three factors were different for employers and students. Table 4 provides the mean scores for each factor.

5.1 Employer Perceptions

Important skills for an entry-level position:

Table 3 lists the skills set in the order of importance among employers. Analysis shows that Tunisian professionals have reported that interpersonal, personal and intellectual skills, physical qualities and IT skills were ranked as the top three skills valued by employers. Furthermore, it should be noted that all proposed items received mean scores above 3 excepting the item "Advertising and promotion." This means that professionals surveyed agree that these skills are of importance greater than the mean-score. In addition, 40 of the 78 items were offered an average score above 4 (High importance). Analytically, the following skills were ranked at the bottom of the list: (1) The ability to inspire confidence (Credibility, honesty and openness), (2) ethical awareness, (3) Capacity for dialogue, exchange and negotiation, (4) the desire for personal success (5) The ability to work on team. In fact, these skills received mean scores above 4 with a good level of consensus on the part of respondents ($CV < 30$). These skills were considered to have at least a high importance to employers. Even if we extend the scope of our results, findings show that personal skills (personal and moral autonomy, dynamism), interpersonal skills (teamwork, communication, leadership), intellectual skills (critical thinking, the time management and pressure) and IT skills (the selection and the use of appropriate software) have been highly classified by all practitioners.

In short, it appears that accounting professionals are seeking a diverse set of generic traits (non technical) in new accounting graduates, because may be, these skills are crucial in creating added value. These results are similar to the findings of several previous researches (Zaid and Abraham, 1994; Johnson and Johnson, 1995; Morgan, 1997; Lee and Blaszczyński, 1999; Baker and McGregor, 2000; Abraham and Jones, 2008) who found that generic skills (especially, ethical awareness and communication) are real keys success factors. The employers also ranked technical abilities as less important than soft skills. Therefore, we can say that professional accountants consider these skills as implicit; their presence in the skills base of accounting graduates is quite obvious. This finding corroborates the results of researches conducted in other contexts such as the United States (Gabric and MacFadden, 2001) and Australia (De Lange et al., 2006; Kavanagh and Drenan, 2008; Kavanagh et al., 2009). To better summarize the items and to reduce the complexity of our analysis, further data analysis was conducted. So, we treated the results for skills grouped by category by calculating an overall mean score for each skills factor. We, also, calculated the Cronbach's alpha coefficient to ensure the internal consistency of our advanced skills factors.

Table 3. Important skills for an entry-level position: employers ranking

Rank	Catego-ries*	Items	Mean score	Standard deviation	coefficient of variation
1	VI	The ability to inspire confidence (credibility, honesty)	4,75	0,478	10,06
2	VII	Ethical awreness	4,61	0,637	13,81
3	VI	Capacity for dialogue, exchange and negotiation	4,54	0,536	11,80
4	VII	Desire for personal success	4,50	0,707	15,71
5	VI	Collaborate with other teams	4,437	0,609	13,72
6	V	Organize workload and handle tight deadlines	4,416	0,786	17,79
7	VII	Continuous learning	4,35	0,806	18,54
8	III	The selection and the use of appropriate software	4,33	0,874	20,18
9	VII	Self confidence	4,31	0,711	16,49
10	VI	Present and to defend points of view and the outcomes of their own work, verbally, to colleagues, clients, and superiors	4,27	0,604	14,14
11	V	Critical analysis	4,26	0,756	17,74
12	V	Solve unstructured problems	4,26	0,433	10,16
13	VI	Present and defend points of view and the outcomes of their own work, in writing, to clients, and superiors	4,25	0,478	11,24
14	III	Hardware skills	4,24	0,66	15,56
15	V	Select and assign work priorities	4,23	0,895	21,16
16	VI	Listen effectively to obtain information	4,23	0,62	14,65
17	VII	Social adaptability	4,22	0,696	16,49
18	V	Analysis capacity and logical thinking	4,20	0,796	18,97
19	VII	Pressure resistance	4,21	0,61	14,51
20	V	Critical reading	4,187	0,526	12,56
21	IV	Good posture and looking presentable	4,18	0,44	10,52
22	IV	Personal style	4,166	0,656	15,74
23	VII	Tenacity, perseverance and self-motivation	4,16	0,687	16,51
24	VII	Listening skills	4,187	0,696	16,62
25	IV	Personal health practices	4,125	0,696	16,87
26	VI	Leadership	4,125	0,525	12,72
27	I	Conduct audits and prepare final reports	4,125	0,753	18,25
28	II	Organize and manage human resources	4,105	0,742	18,07
29	VI	Mastering foreign languages	4,104	0,620	15,10
30	III	Computer Security skill	4,104	0,871	21,29
31	VI	Organize and delegate work	4,104	0,742	18,07
32	VII	Sense of personal identity	4,083	0,786	19,25
33	VII	Take reasonable job work risk	4,084	0,533	13,05
34	I	Prepare financial statements	4,083	0,671	16,43
35	VII	Sense of humor	4,062	0,316	7,778
36	VI	Ability to facilitate	4	0,583	14,57
37	VII	Flexibility	4,041	0,705	17,44
38	VI	sense of solidarity	4,041	0,842	20,83
39	V	Find effective ways to solve problems	3,97	0,802	20,20

40	VII	Adapt to situation of change	4	0,735	18,37
41	III	Use and understand various information	3,98	0,875	21,98
42	I	Analyze cost and margins	3,98	0,875	21,98
43	VII	Personal convictions	3,95	0,45	11,39
44	VII	optimism	3,95	0,454	11,49
45	VII	Emotional Stability: self-control, calm, good humor	3,937	0,689	17,49
46	I	Conduct inventory and check accounting records	3,937	0,876	22,24
47	I	Prepare tax returns	3,91	0,812	20,76
48	V	The ability to obtain various information	3,90	0,796	20,41
49	I	Track inventory analysis	3,89	1,020	26,22
50	V	Find creative solutions	3,87	0,865	22,35
51	I	Technical/bookkeeping (accounts receivable/payable)	3,875	0,726	18,73
52	I	Ensure effective financial control	3,875	0,832	21,47
53	I	Ensure the smooth running of internal control	3,85	1,117	29,01
54	I	Mastering tax system	3,83	0,687	17,93
55	I	Consolidate financial statements	3,80	1,104	29,05
56	I	Accounting for property , plant, and equipment.	3,78	0,934	24,70
57	VI	The Use of visual aids in presentations	3,76	0,899	23,90
58	III	Perform electronic transfer of accounting data	3,75	0,803	21,41
59	I	Perform the bank reconciliation statement	3,704	0,575	15,52
60	II	Mastering Good Governance series	3,687	0,845	22,91
61	I	To record provisions for depreciations	3,66	0,563	15,38
62	III	Ability to develop effective learning methods	3,65	0,920	25,20
63	I	Prepare payroll	3,64	0,628	17,25
64	II	Participate in planning	3,625	0,60	16,55
65	III	Describe and use a procedure for data interchange	3,60	0,929	25,80
66	VII	Empathy	3,57	0,671	18,79
67	II	Actuarial and risk assessment	3,54	1,274	36,00
68	I	Cash management Basics	3,5	0,865	24,71
69	I	Strategic management	3,48	1,080	31,03
70	I	Analyze business performance	3,46	1,116	32,25
71	II	The use of quantitative methods and statistics	3,33	0,877	26,33
72	I	Prepare invoices control	3,312	0,960	28,98
73	I	Update control procedures	3,30	1,140	34,54
74	IV	Practice Sports	3,22	1,240	38,50
75	I	Develop and manage budgets	3,208	0,762	23,75
76	II	Develop business plans	3,17	0,897	28,31
77	II	Investment Analysis and Portfolio Management	3	0,957	31,9
78	II	Advertising and promotion	2,70	1,159	42,92

Note: (I) Technical skills (accounting, financial and tax), (II) Management skills, (III) Information Technology Skills, (IV) Physical qualities, (V) Intellectual skills, (VI) Interpersonal skills and (VII) personal skills.

Analysis of overall average scores for the various skill categories (see Table 3) shows that they have received scores important and close in terms of value. Thus, we can say that professional accountants agree on the importance of these skills for an entry-level position. However, we note that generic skills factors dominate technical skills categories. In fact, the overall mean score for generic skills (Intellectual, interpersonal and

personal) exceed 4. However, the overall mean score for technical abilities is equal to 3.71.

Table 4. Inter-category analysis: employers' rankings

<i>Categories</i>	<i>Skill categories</i>	<i>Mean score</i>	<i>Cronbach's alpha</i>
I	Technical skills	3,71	0,866
II	Management skills	3,315	0,822
III	Information Technology Skills	3,916	0,808
IV	Physical qualities	3,921	0,70
V	Intellectual skills	4,141	0,739
VI	Interpersonal skills	4,11	0,739
VII	Personal skills	4,136	0,912

5.2 Student Perceptions

Important general skills for an entry-level position:

Table 4 provides a ranking of general skills in order of importance among students. According to students, all the listed skills are important for an entry-level position. In fact, 32 skills received a score higher than 4. In addition, 44 of the 78 skills were featured in a good place and have thus received scores between 3 and 4 with a good level of consensus on the part of respondents. In fact, these skills were considered to have at least moderate importance. It should be noted that technical knowledge were considered by students surveyed, at least, as important for a successful career. Moreover, 13 technical skills received a mean score greater than 4.

Moreover, students ranked: (1) Prepare financial statements with a score equal to 4.59, (2) Technical bookkeeping (accounts receivable/payable) with a mean score of 4.506, (3) Accounting for depreciation and provisions with a mean score of 4.395, as the top three skills necessary for obtaining a position after graduation. On the other hand, updating the control procedures and analyzing business performance were ranked by students at the bottom of the list with a high level of consensus (CV 29.58 and 25.6 respectively). These scores could be explained by the fact that students tend to favor fields related to financial reporting. Along with employers, students ranked highly several soft skills such as (1) the ability to dialogue, exchange and negotiation, (2) the desire for personal success, (3) the ability to inspire trust, credibility and openness.

Table 5. Technical & generic skills: students' ranking

Rank	Categories	<i>Items</i>	Mean score	Standard deviation	coefficient of variation
1	I	Prepare financial statements	4,59	0,787	17,14
2	I	Technical bookkeeping (accounts receivable/payable)	4,506	0,572	12,69
3	I	To record provisions for depreciations	4,395	0,664	15,10
4	I	Cash management basics	4,358	0,841	19,29
5	VI	Ability to inspire confidence (credibility, honesty)	4,345	0,896	20,62
6	VI	Capacity for dialogue, exchange and negotiation	4,333	0,866	19,98
7	VII	The desire for personal success	4,308	0,869	20,17
8	I	Conduct audits and prepare final reports	4,283	0,951	22,20
9	VI	Listen effectively to obtain information	4,259	0,787	18,47
10	I	Ensure effective financial control	4,234	0,855	20,19
11	III	Use and understand various information	4,225	0,940	22,24
12	I	Consolidate financial statements	4,222	0,821	19,44
13	I	Prepare tax returns	4,222	0,880	20,84
14	III	The selection and the use of appropriate software	4,209	0,958	22,76

15	I	Perform the bank reconciliation statement	4,209	0,832	19,76
16	V	Organize workload and handle tight deadlines	4,197	0,842	20,06
17	I	Mastering tax system	4,160	0,813	19,54
18	I	Accounting for property, plant and equipment	4,135	0,841	20,33
19	VII	Tenacity, perseverance and self-motivation	4,135	0,858	20,74
20	I	Prepare invoices control	4,123	0,832	20,17
21	VI	Present and defend points of view and the outcomes of their own work, verbally, to colleagues, clients, and superiors	4,112	0,885	21,52
22	III	Hardware skills	4,111	0,948	23,06
22	V	Select and assign work priorities	4,111	0,866	21,06
24	VI	Listening skills	4,11	0,86	20,92
24	VII	Self confidence	4,11	0,846	20,58
26	VII	Flexibility	4,098	0,87	21,22
26	I	Conduct inventory and check accounting records	4,098	0,874	21,32
28	VI	Mastering foreign languages	4,05	0,926	22,86
29	VI	Collaborate with other teams	4,049	0,864	21,33
29	VII	Take reasonable job related risk	4,049	0,80	19,75
31	IV	Good posture and looking physically presentable	4,024	0,865	21,49
32	IV	Personal style	4	0,961	24,02
33	VII	Personal convictions	4	0,8012	20,03
34	V	Find creative solutions	3,987	0,968	24,27
35	VI	Sense of solidarity	3,962	0,908	22,91
36	IV	Personal health practices	3,950	0,850	21,51
36	I	Ensure the smooth running of internal control	3,950	0,893	22,60
36	VI	Organize and delegate works	3,950	0,920	23,29
39	V	Critical thinking	3,938	0,907	23,03
40	VII	Emotional Stability: self-control, calm.	3,925	0,899	22,9
40	VII	Self-training	3,925	0,749	19,08
42	I	Analyze cost and margins	3,913	0,911	23,28
42	I	Develop and manage budgets	3,913	0,977	24,96
42	III	Perform electronic transfer of accounting data	3,913	1,002	25,60
42	VII	Social adaptability	3,913	0,905	23,12
46	VI	Present and defend points of view and the outcomes of their own work, in writing, to colleagues, clients, and superiors	3,91	0,819	20,94
47	V	The ability to use various information	3,9	1,007	25,81
48	I	Track inventory analysis	3,888	0,894	22,99
49	I	Strategic management	3,888	0,894	22,99
50	I	Critical reading	3,888	0,851	21,88
51	VI	Adapt to situation of changes	3,88	0,769	19,81
52	VII	Prepare payroll	3,876	0,98	25,26
53	I	Ability to stimulate and to facilitate	3,851	0,979	25,25
54	VI	Sense of personal identity	3,85	0,853	22,15
55	VII	Solve unstructured problems	3,814	0,86	22,33
56	V	Sense of humor	3,802	0,963	25,24

57	VII	Computer Security skill	3,802	0,88	23,14
58	III	Leadership	3,790	1,029	27,06
59	VI	The effective use of visual aids in presentations	3,775	0,876	23,11
60	VI	Analysis capacity and logical thinking	3,765	0,927	24,55
61	V	Find effective ways to solve problems	3,765	0,978	25,98
62	V	Pressure resistance	3,76	0,972	25,82
63	VII	Optimism	3,74	0,919	24,4
64	VII	The effective use of Electronic Data Interchange procedure	3,740	0,98	26,20
65	III	Actuarial and risk assessment	3,679	0,802	21,44
66	I	Analyze business performance	3,65	0,985	26,77
67	I	Mastering Good Governance series	3,592	0,937	25,67
68	II	Updating control procedures	3,580	0,997	27,75
69	I	Empathy	3,543	1,059	29,58
70	VII	Develop business plans	3,518	0,846	23,87
71	II	Participate in planning	3,481	1,026	29,16
72	II	Ethical Awareness	3,382	1,073	30,82
73	VII	Organize and manage human resources	3,333	0,936	27,69
74	II	The use of quantitative methods, and statistics	3,283	1,204	36,12
75	II	Investment Analysis and Portfolio Management	3,222	1,051	32,01
76	II	Advertising and promotion	3,012	0,974	30,23
77	II	Practice sports	2,94	1,318	43,76
78	IV	Ability to develop effective learning methods	2,93	1,076	36,62

Note: (I) Technical skills (accounting, financial and tax), (II) Management skills, (III) Information Technology Skills, (IV) Physical qualities, (V) Intellectual skills, (VI) Interpersonal skills and (VII) personal skills.

After conducting tests for individual items, we will try to make Skills analysis grouped by factors (see Table 5). In this context, we can notice that different categories of skills received important overall mean scores and close in term of value. This shows that students recognize the importance of development of these different skills. On the other hand, we note the dominance of technical skills base (mean score of 4.086). Even though, students recognize the importance of generic skills, they stress the importance of functional and technical abilities to succeed in their careers. In addition, Table 5 shows that the Cronbach's alpha was satisfactory (between 0.736 and 0.901) which demonstrates that the items share a common understanding and validate the reliability and the internal consistency of our measure.

Table 6. Analysis of cross-asset class skills: student ranking

	<i>Skills categories</i>	<i>Mean score</i>	<i>Cronbach's alpha</i>
I	Technical skills	4,086	0,895
II	Management skills	3,349	0,736
III	Information Technology Skills	3,848	0,801
IV	Physical qualities	3,728	0,739
V	Intellectual skills	3,935	0,870
VI	Interpersonal skills	4,028	0,901
VII	Personal skills	3,903	0,879

5.3 Further Analysis: Difference between Employers' Expectations and Students' Perceptions

In this section, we use the t-test to verify if there is a significant difference between students' perceptions and employers' expectations of employment skills and characteristics. The results shown in Table 6 indicate that even though there are similarities between student perceptions and employers' expectations, differences remain. In fact, both groups have recognized the importance of different skills categories; however, the ranking given by professionals and students for each skill factor was different. Moreover, the t-test shows significant differences in the following categories: technical skills, physical qualities, intellectual skills and personal skills. Moreover, it seems that students tend to perceive technical skills as more important than do employers. In addition, separate analysis of different all over mean scores reveals more specific between students' perceptions and employers' expectations. For instance, a critical gap found in our study was for "Ethical awareness" and "pressure resistance". Interestingly, employers ranked these skills highest in importance (Ranking Second out 78). However, students ranked ethics substantially lower in importance (ranking 72 out 78).

Other important gaps were found in the interpersonal and personal skills: teamwork, leadership and command sense, self-training, the ability to develop effective learning methods). It received a mean importance score of 4.323 among employers (ranking six out of 34) while the mean score for students was only 3.911 (ranking eighteenth). This finding also suggests that students may not realize how much employers value being rigorous and self motivated. In sum, we find that gaps exist between employer expectations of employment skills and characteristics, and student perceptions of those expectations. The gaps appear to arise from a lack of understand in terms of new skills expected for future accountants.

Table 7. The gap between employers' expectations and students' perceptions

Skills categories	Mean score: students ranking	Mean score: employers ranking	Absolute difference
Technical skills	4,086	3,71	0,3758***
Management skills	3,349	3,31	0,034
IT skills	3,848	3,93	0,068
Physical qualities	3,728	3,92	0,193**
Intellectual skills	3,935	4,14	0,205**
Interpersonal skills	4,028	4,11	0,0870
Personal skills	3,903	4,14	0,233***

***: significant at 1%; **: significant at 5%.

6. Summary and Future Directions

This article aimed to analyze the students' perceptions about the skills set required, and tried to bring them closer to employers' expectations in the Tunisian case. To achieve this goal, a sample of accounting students and professionals' accountants was invited to participate in the study. A four-page questionnaire was developed that was brief and free of specialized jargon. Seven factors were of interest in this study 1) Technical skills, 2) Management skills, 3) IT skills, 4) Physical qualities, 5) Intellectual skills, 6) Interpersonal skills and 7) Personal skills. In the first section of the survey, respondents were asked to "indicate how important it is for prospective employees to have the following skills.

The results of our study show that professional accountants admit that accounting graduates must possess a wide range of technical and generic skills in order to succeed their careers within the profession. This finding confirms the results of several previous researches (Albrecht and Sack, 2000; Gabric and McFadden, 2001; Kavanagh and Drenan, 2008). The results revealed also that employers emphasized the need for graduates to develop generic skills related to ethical awareness, communication, critical analysis and teamwork. According to students' perceptions, it seems that they tend to believe more in basic technical skills compared to other categories of skills. In fact, through the scores assigned to items, students report that technical skills allow the accounting graduate to pursue a successful career. However, they do not deny the importance of several generic skills.

Moreover, further analysis, based on the comparison of different mean score, reveals the existence of a gap between the students' perceptions and employers' expectations. While the only significant gap the most critical gaps in our study was among the technical skills factor, separate analysis of items revealed several differences

between the responses of these two respondents groups. Thus, we find that in accordance with the Jones and Sin (2003) model, employers are seeking a diverse range of skills and attributes in new accounting graduates such as life experience, communication and teamwork.

However, students value technical skills higher than generic skills. This difference in perceptions may be the result of a lack of communication between students and professionals. Our results may explain in part why, in Tunisian university accounting graduates are having a difficulty at entry level. In summary, Tunisian employers are expecting graduates to be far more 'job ready' (Kavangh and Drenan, 2008) than is actually the case which results in gaps between students' perceptions and employers' expectations. We believe that this phenomenon, which tends to devalue the potential of students, is the result of a lack of openness of the Tunisian university on its professional environment. We propose in this context, to multiply the channels of exchange between the two "worlds" by introducing a new culture that minimizes this obsessive relentlessness which drives the majority of students to run only behind good marks. We believe that universities have to develop coherent policies and frameworks to promote cognitive intelligence, social, vocational and personal development. This could be achieved by the establishment of career centers and alumni associations... etc. Without a doubt, the skills debate will continue to rage. Future researches should include more studies on the perceptions of academics and graduates already employed in audit firms.

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Notes

Note 1. A survey of the INS (National Statistics Institute) which dates from Tunisia in November 2011. This survey is visible on the link (document in Arabic): http://www.leaders.com.tn/uploads/FCK_files/file/Presentation_Enq_Emploi_2011_VF09.ppsx

Note 2. International Education Standards or international standards of education produced by IFAC (International Federation of Accountants).

Note 3. Ministry of Manpower and Income Security, PSC. Text taken from "Report of the respondents' recognition of professional skills, Government of Quebec, in January 1988.

Note 4. Especially in the U.S., Australia, New Zealand and even the United Kingdom (AECC, 1990; AICPA, 1990; Mathews & al., 1990; ASCPA, 1992; ICAEW, 1996).

Note 5. In this context, Jackling and De Lange (2009) reported that the Association of Chartered Accountants of Australia, will require universities to demonstrate how they have incorporated generic skills (32 in number, initially set by international standards of education accounting) for professional accreditation of its members belonging to these universities.

Note 6. These tests are based on interviews that we conducted with three professional accountants (two chartered accountants and a certified public accountant) and three students from the third year license applied in accounting.

Note 7. Certified public accountants are members of the Institute of Certified Public Accountants of Tunisia (founded in 1982).

Note 8. The Chartered Accountants are members of the Society of Accountants of Tunisia (established since 2002).

Note 9. According to Evrard et al. (1993, p. 282), the value of this coefficient is acceptable if it is between 0.6 and 0.8, for an exploratory study, whereas for a confirmatory study, the authors advocate a value greater than 0.8.