





Tracer Study Report on "Leather & Leather Products Technology Graduates of Ethiopian Technical University": Results and Findings of Two Years

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Tracer Study Report on "Leather & Leather Products Technology Graduates
of Ethiopian Technical University": Results and Findings
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EXECUTIVE SUMMARY

Objective: The objective of this tracer study was to investigate the quality, relevance and effectiveness of leather & leather products technology training being delivered at the Ethiopian Technical University in equipping graduates with the necessary skills to secure employment and performing their job successfully in the world of work.

Methodology: A cross-sectional descriptive survey was employed. Both quantitative and qualitative data were collected. Graduates of leather & leather products technology and their corresponding employers were considered as potential sources of the data needed for the tracer study. Accordingly, a census of all 27 graduates of leather & leather products technology is planned to be involved in this tracer study. But this tracer study was able to contact 25 graduates making the response rate of the study to be 92.6% which is tolerable. In addition to the graduates, all the employers of the graduates were considered. In fact, the employers of all the graduates were TVET institutions and TVET agencies. Hence, from each organization, up to three persons (deans, associate deans, department heads) were interviewed to increase the accuracy of the information they provided. The collected data were analyzed using both quantitative and qualitative techniques. The quantitative data were analyzed using descriptive statistical methods such as frequency and percentage, mean, standard deviation, standard scores, diagrams, and graphs, and SPSS version 25 was used to perform these analyses. The qualitative data were analyzed using thematic analysis.

Results: Of the total 25 graduates involved in this tracer study, most (96%) graduates are males and the remaining 1 (4%) of them are females. All the 25 (100%) graduates are employed in government organizations on a permanent basis as full-time employees. Concerning the sector of employment, 25 (100.0%) of the graduates are working in the Education and Training sector (that is, in TVET institutions) found in Addis Ababa city administration (52.0%), Amhara region (20.0%), and Oromia region (28.0%). About 80.0% of the graduates were still on their first job after graduation. Of those graduates whose current job is their first job, most of the graduates (60.0%) have taken below 3 months to be employed after their graduation. Most (40.0%) of the graduates used printing and electronic media (Newspaper /Television/Radio) advertisements to find their current job. The next majority (16.0%) of the graduates got employed through industry linkages during training (e.g., apprenticeship, on-the-job training) which is compliant with the nature of TVET institutions. All (100.0%) of the graduates believed that their present work is related to the course they followed at the Ethiopian Technical University. In particular, more than half (56.0%) agreed that the degree of relation between the course and work is high. The

remaining 40.0% and 4.0% of the graduates believed that their present work has a moderate and slight degree of relation with the course they followed in the university, respectively. A majority (96.0%) of the graduates agreed that theoretical and practical knowledge related to their field of specialization helped them to perform their present job. The second required skill identified by the graduates is practical job-related skills (for example, the use of tools, equipment, and machinery) as identified by 21 (84.0%) of the graduates. Concerning training experiences, only 20.0% of graduates had taken some kind of further training courses after graduation such as entrepreneurship, kaizen, CAD software, electrical electronics, ICT training, leather product designing, and pattern making. On the contrary, most (80.0%) of the graduates did not participate in any further training because of the absence of training opportunities (47.4%), absence of relevant course (26.3%), and not begin able to pay for the training (15.8%). About 92.0% of the graduates are satisfied with their current job.

Conclusions and Recommendations: The finding of this tracer study indicates that only a few female graduates are there. Hence, the Ethiopian Technical University should have gender consideration during admission of leather & leather technology department to have more female trainees enroll for the future. The top two required skills for performing the job of the traced graduates are theoretical and practical knowledge and practical job-related skills. Therefore, the training of the program should concentrate on theoretical and practical knowledge and practical job-related skills. The overwhelming majority of the traced graduates did not participate in any training because of three major reasons: absence of training opportunity, absence of relevant course, and not begin able to pay for the training. But they would like to take further training and most of the employers indicated that the graduates need additional training. Thus, the university is expected to organize a sufficient number of training opportunities in relevant areas of leather technology free of charge. Graduates had the lowest satisfaction in terms of income and benefits. This is a clear indication that the graduates are highly dissatisfied with their job in terms of their income and benefits. The concerned bodies should have to consider this. Graduates and employers suggested the training to be and focus more on the practical skills. Graduates also recommended the curriculum to be revised, the course composition to be reviewed, and the competency of trainers to be improved. In general, it is recommended for the university to strengthen the University-Industry Linkage department and develop the practical industrial capacity of trainers. The university should work closely with employers in order to prepare its graduates for employment. There is a need to liaise with employers so as to reduce the gap between the level of training at the university level and the requirements of the employers. As

a result, the Ethiopian Technical University should work with employers who are the consumers of its graduates. This will make the training in the university labor market demand-driven.

Keywords: Leather, Leather Products, Leather Technology, Tracer Study.

ACRONYMS

CoE: Center of Excellence

EASTRIP: East Africa Skills for Transformation and Regional Integration Project

EIA: Environmental Impact Assessment

ENAO: Ethiopian National Accreditation Office

ESHS: Environment, Social, Health, and Safety

FTA: Federal TVET Agency

ETU: Ethiopian Technical University

FTVETI: Federal Technical and Vocational Education and Training Institute

GBV: Gender-Based Violence

HEI: Higher Education Institution

HERQA: Higher Education Relevance Quality Agency

IDA: International Development Agency

ILO: International Labour Organization

KII: Key Informant Interview

MoSHE: Ministry of Science and Higher Education

MSE: Medium and Small Enterprises

PESTEL: Political, Economic, Social, Technological, Environmental, and Legal

SME: Small and Micro Enterprise

SNNP: Southern Nations, Nationalities and People

SWOT: Strength, Weakness, Opportunities, and Threats

ToR-Term of Reference

TVET: Technical and Vocational Education and Training

1. INTRODUCTION

1.1. Background

Graduate Tracer Study (GTS) is becoming a commonly recognized practice worldwide. Graduate tracer studies are concerned about showing the status of graduates from higher education institutions (HEIs) worldwide spurred by the need to give careful consideration to how graduates view the experiences they underwent during their study and their transition to the job market. A study from Sandhaas and Winkler in 2011 shows that statistics from TVET agencies in Ethiopia on the where-about of TVET graduates as well as any other studies or reports undertaken do not exist. Without the availability of reliable statistical data of labor demand indicators and the TVET sector graduates' employability, it makes it difficult to statically measure the impact of the TVET graduates on the eradication of poverty in the country. As Kingombe in 2012 reported that labor statistics and market indicators are essential tools for formulation and implementation of policy measures in the TVET effectiveness.

If HEIs are to improve their teaching and training of graduates, the precedence should be to learn and garner improvements from graduates' nuanced experiences. It is since the 20th Century that Universities started to conducting tracer studies for the purpose of accrediting their study programs, explaining the link between study programs and the job market, showing uniqueness and positioning of individual universities, and enabling universities and institutions managing higher education in their respective countries make informed and evidence-based decisions about improvements and quality education and services in higher education (Schomburg, 2011).

Similarly, a few Colleges and Universities in Ethiopia started conducting tracer studies with the same purpose. However, most educational universities in Ethiopia are not in a position to conduct tracer studies for the purpose of achieving quality and relevance. It is a common trend that most higher learning institutions have homogeneous programs, and most programs were also opened without consulting the needs of the demand side. The employability of the graduates and the acceptance they have by the employer side has not been properly addressed. Furthermore, the labor market context of the industry sector in Ethiopia needs continuous and intensive tracer study due to its dynamic nature.

The industry sector in Ethiopia has still been a promising area of national development in Ethiopia. The Ethiopian manufacturing sector is big in Ethiopia because of the booming

infrastructure and industrial development, but the industry suffers from the availability of competent human resources in tool and dies making, leather and leather technology practices, and approaches that impede growth and development (Oqubay et al, 2019).

Leather technologies are a precision type of technology in order to produce new quality products. The CoE on Leather Technology is one of the identified priority sectors to offer skills development programs for TVET trainers and industry practitioners. The need for the creation and establishment of a center of excellence in priority technology occupations in the Federal TVET Institute and Satellite Colleges becomes necessary to provide quality TVET programs based on international standard practices.

The Leather Technology Center of Excellence aims to improve the competitiveness of the industries and SMEs engaged in the manufacturing sector particularly in leather technology by developing their capacity through quality training. This, in turn, bridges the gap between the demand and the supply of a trained workforce to the industry. It will also intensify the research & development program that would benefit the manufacturing sector by increasing competitiveness in global and local markets in terms of cost and quality. As the Center of Excellence in Leather Technology, the expectation is high particularly in providing a new set of standards for training and development of TVET trainers and industry practitioners.

Diversifying undergraduate and postgraduate programs is also one of the priorities for Federal TVET Institute in the aim to be upgraded itself as a Technical University that catches the attention of students, professors, researchers, and partners from all over the world. Studies have shown the diversity of gaps in the TVET sector in the country, with a horizontal and vertical mismatch between the training provided and the existing needs in leather & leather products technology, with an important weight in the scarcity in access and equity in the sector. Such as, De Gobbi, M.S. (2006/1) has studied the labor market flexibility and employment and income security in Ethiopia, which shows the uncertainty of the labor market demand gap with respect the availability.

Educan foundation (2009) has published the learn for work scholkland program which seems the stepping stop for the newly developed document to fill the gaps of the labor market demand and the labour skill and knowledge. Teklehaimanot Haileselassie (2002) has reported the challenge of TVET in Ethiopia due to the misconceptions of the employers and the peoples at large towards the TVET graduated individuals with the fact that most students who enrolled to TVET College were those who did not get the university entrance result. An invaluable synthesis report from the world bank in 2007 with respect to the challenges and

prospects of the labor market in Ethiopia emphasizes the indicators and trends of the labour market. This report shade light on the way to address the challenges whereby advocating the labor market is an urgent issue and it recommends that education and training of training sectors shall be relevant and employable. Birhane Sime Geressu, (2017), in his article about the impact of competence-based training on employability of technical and vocational graduates in Ethiopia has reported that as per the result of detailed data analysis, inadequate allocation of relevant resources (shortage of teaching materials especially in occupational standards newly developed); scarcity of quality academic and support staff; increased enrolment and insufficient industrial internship bases have affected the successful implementation of competence-based training. He also mentioned that these situations also affect TVET colleges not to produce competent graduates who have required employability skills, knowledge, and ability that consequentially lead to graduate unemployment and dissatisfaction of different categories of stakeholders. Moreover, he emphasized that his qualitative data revealed that some employed graduates were not able to demonstrate employability skills, knowledge into the job. he concluded that the low competence of TVET colleges to measure the actual skills needed in the labor market and predicting the number of graduates required from TVET colleges in terms of occupational categories, are hindering the effective utilization of market opportunities and causes the fragile implementation of competence-based learning. Within the framework of this Project, the Leather Technology Center of Excellence is launched under the Federal TVET Institute to upgrade the existing facilities and bring to international standards the CoE will receive support. The Strategic Investment Plan calls on the CoE teachers to improve their skills and proficiency beyond old technology practices and experiences and for the future teachers to prepare and learn using the latest new cutting-edge technologies to improve teaching and learning skills for the benefit of TVET students and labor market.

The topic is needed to develop and establish the foundations to deliver Tracer Study as a way to trace the performance of graduates in leather and leather products technology practices in a more efficient way and at minimum costs. In this regard, the proposed tracer study comes at a time when the disparity between the training provided and the existing needs clarification in order to understand the real demand and supply for the labor market, so that to address the relevance and quality issues and take the right track to the appropriate response with qualified skilled labor in these both growing economic sectors and contribute to the necessary relevance, quality, access, and equity.

Considering these backdrops, the Tracer Study provides, therefore, feedback for improvements in the TVET Institute training program and approach, a broad range of aspects of employment and work as well as the relevance of different educational pathways to employments in leather & leather products technology sectors.

1.2. Statement of the Problem

Different countries are trying to create closer synergies between the needs and purposes of their education training systems, the local and regional labor markets, and their national economies. This is largely a result of an international consensus which, though contested, argues that people and organizations need to embrace new skills and knowledge at regular periods in order to meet the challenges of a much more dynamic and unstable economic climate (Unwin, 2003). Such developments ask important questions of national education systems in terms of curriculum content, teaching and learning processes, skills acquisition, and expertise of educational professionals. In an environment where there is a lack of a systematic and accurate examination of employment outcomes of vocational training graduates such as is the case in Botswana, it is difficult to establish any synergy between the economy and labor markets. In such cases, tracer studies could be used as a means of maintaining curriculum relevance and providing targeted benefits to graduates to enhance the marketability of vocational programs. Adequate knowledge on employment outcomes of vocational training graduates could assist in formulating policy towards combating some social problems such as unemployment.

However, this trend is not found to be true in Ethiopia as there is huge feedback between the needs of the market and the training programs. Similarly, as Sandhaas and Winkler (2011) also reported, there is a very poor practice of conducting tracer studies to evaluate the quality of graduates and the satisfaction level of employers on the programs delivered by TVET institutions. This gap has been increasing the employment rate of graduates and affecting institutions' chances of self-assessment with regard to program relevance and quality.

Therefore, there is an alarming need of conducting tracer studies by individual institutions so as to know the employability of their graduates and the satisfaction of employers so as to plan effective interventions on the training delivery content and method to make sure that it is up to date and parallel per the labor market demand.

1.3. Objectives

1.3.1. General Objective

The general objective of this tracer study was to investigate the quality, relevance, and effectiveness of leather & leather products technology training being delivered at the Ethiopian Technical University in equipping graduates with the necessary skills to secure employment and performing their job successfully in the world of work.

1.3.2. Specific Objectives

- To assess the employability of leather & leather products technology graduates of Ethiopian Technical University.
- To examine how relevant the study programs of leather & leather products technology to the present work/job of graduates.
- The attitudes of leather & leather products technology graduates themselves regarding job quality, relevance, and effectiveness of their education in securing employment.
- To identify the required skills of employers in recruiting leather & leather products technology graduates.
- To assess the perception of employers on the quality of leather & leather products technology graduates' knowledge, skills, and attitude with regard to the job they are functioning.

1.4. Scope

This tracer study was focused on leather & leather products technology graduates of Ethiopian Technical University in the past 2 consecutive Ethiopian academic years (2019 and 2020). In fact, there was no graduation of Leather & Leather Products Technology due to the COVID-19 pandemic. The graduation of 2020 was postponed to 2021. Since graduates of 2021 stayed below 6 months after their graduation, they were not included in this study. Hence, all the traced graduates involved in this study were graduates of 2019.

1.5. Significance of the Study

This tracer study constituted one form of an empirical study that can provide valuable information for evaluating the results of the education and training of Leather & Leather Products Technology at the Ethiopian Technical University. This information can be used for further development of the departments in the context of quality assurance. The study

proposed solutions which could enable the university to get information about the possible deficits in Leather & Leather Products Technology programs, and serve as a basis for future curriculum planning and revision activities of the programs.

2. METHODOLOGY

2.1. Study Design

A cross-sectional descriptive survey was employed. In order to come up with comprehensive information, a mixed-methods approach was used. That is, both quantitative and qualitative data were collected. Such an approach has the advantages of enabling triangulation and provide a more complete understanding of the problems related to the study condition and employment of the leather & leather products technology graduates of Ethiopian Technical University. The triangulation used in this study involved the use of both quantitative and qualitative data sources (data triangulation) and the use of uni-variable and multivariable methods (methodological triangulation).

2.2. Study Period

This study was conducted in 2021. The required data were collected from May 17-28, 2021.

2.3. Study Population

This tracer study concentrated on graduates of leather & leather products technology from the Ethiopian Technical University. Accordingly, two different populations (graduates, and employers) were considered as potential sources of the data needed in this tracer study. Hence, the first population of the study comprised all leather & leather products technology graduates of the past two Ethiopian years. There were a total of 27 graduates of leather & leather products technology in which all of them graduated in 2018/19. Accordingly, a census of the total 27 graduates was planned to be involved in this tracer study.

The second population consisted of all employer organizations of the graduates were considered. In fact, almost all the employers of the graduates were TVET institutions. Hence, up to three persons (deans, associate deans, department heads) were involved.

2.4. Variables of the Study

As there were two different study populations targeted in this tracer study, both the dependent and independent variables in each group were identified as follows.

2.4.1. Dependent Variables

In this tracer study, 4 variables were considered as the primary interest to be determined as an outcome of graduates' data. These were:

- the level of employability of the graduates of leather & leather products technology;
- the relevance of training attended at ETU;
- the level of graduates' job satisfaction; and
- graduates' view on the study conditions and provisions.

From the side of employers' data, there were 3 outcome variables. These were:

- employers' recruitment and selection criteria of graduates of leather & leather products technology;
- the level of satisfaction of employers by the leather & leather technology graduates; and
- skill shortages.

2.4.2. Independent Variables

The independent variables represent characteristics (including demographics and backgrounds) related to graduates of leather & leather products technology; and employer organizations.

Graduates' data: The independent variables were characteristics related to graduates of leather & leather products technology.

- Gender (Male, Female),
- Age (years)
- Marital status (Single, Married, Divorced, Other)
- Year of graduation (2018/2019, 2019/20)
- Level of qualification (BSc, MSc)

Employers' data: The independent variables included personal information (including demographics and backgrounds) of persons in a certain role/ position in the employer organizations and their working industry sector.

- Gender (Male, Female),
- Age (years)
- Marital status (Single, Married, Divorced, Other)
- Education level (Diploma or below, BSc/BA/BEd, MSc/MA/Med, PhD)

- Field of study (Manufacturing, Leather & Leather Products Technology, Other)
- Position (Director, Deputy Director, Dean/Associate Dean, Department/Section Head, Other)
- Industry sector of the organization (Manufacturing, Education and Training, Other)

2.5. Data Collection Instruments

Two different kinds of questionnaires were designed and used to collect data from three different study populations; leather & leather products technology graduates, and employers of leather & leather products technology graduates of Ethiopian Technical University. The questionnaires comprised both closed-ended and open-ended questions.

The questionnaires contained questions related to the employability of the leather & leather products technology graduates; the relevance of the training at ETU; the job satisfaction of graduates; the study conditions and provisions at ETU; employers' recruitment procedures and selection criteria of leather & leather products technology graduates, and satisfaction of employers by graduates.

Specifically, the graduates' questionnaire had 6 parts (Part I – Demographic Information, Part II - Employment Status, Part III - Relevance of Training, Part IV - Job Satisfaction, Part V - Relationship between Study and Employment, and Part VI - Comments and Recommendations). There was a total of 72 questions in which the number of questions in each part respectively were 11, 12, 9, 12, 26, and 2.

The employers' questionnaire had 4 parts (Part I - Demographic Information, Part II - Identification of the Organization, Part III - Recruitment Procedures and Satisfaction, and Part IV - Comments and Recommendations). The number of questions in each part was 6, 5, 38, and 2, respectively, which made the total number of questions to be 51.

2.6. Data Quality Control

A number of quality control mechanisms were employed to ensure the quality of the data. First, the data collection instruments (questionnaire and interview guides) were designed in such a way that they do not allow direct and straightforward inconsistencies. Second, 10 data collections were recruited and trained. Besides, there were 5 supervisors to be assigned for facilitating and monitoring the data collection process. Each supervisor was assigned to 2 data collectors and the day-to-day operations of the two data collectors were closely supervised by the same. Third, the collected data were checked daily by the supervisors for its consistency. When issues such as missing values, inconsistent responses, or implausible

numbers are discovered, immediate feedback was given to the respective data collectors and then make corrections by contacting the corresponding respondent again. Fourth, 5 data encoders were hired and trained for entering the data into a computer program. Then, further cleaning and the analyses were done using SPSS version 25 statistical software.

2.7. Data Analysis

The collected data were analyzed using both quantitative and qualitative techniques. The data obtained through the closed-ended part of the questionnaires were quantitatively analyzed using descriptive statistical methods such as frequency and percentage, mean, standard deviation, standard scores, diagrams, and graphs.

The open-ended parts of the questionnaires (qualitative data) were analyzed using thematic analysis. First, codes were developed and applied. Next, themes, patterns, and relationships were identified. Last, the data were summarized. Finally, the basic findings were presented in verbatim qualitative statements where appropriate.

2.8. Ethical Considerations

This study was carried in line with permission and a written approval letter obtained from the Ethiopian Technical University Ethical Review Board. Thus, a specific official letter of request to participate in the study was written for each of the two target populations (graduates and employers). The letter described the objectives of the study and then requested their consent to participate. Besides, before starting the interview, each interviewer explained to the respondents that the objective of the tracer study was to improve the study programs of leather & leather products technology departments and, more specifically, to revise the curricula so it prepares graduates better for the world of work. Through this process, those who participated in the study were after obtaining their oral consent (according to their willingness). Also, it was notified that the study would not cause any physical or psychological harm to the graduates. Besides, it was assured for the respondents that their responses will be kept confidential.

As giving appropriate credit to the use of a scholar's idea is mandatory, all the materials belonging to another person or organization are duly acknowledged. The researchers are also committed to reporting the study findings in a complete and honest way.

2.9. Dissemination of Results

The draft version of the research report was presented to the ESTRIP members for discussion and validation. Then after incorporating the comments and suggestions to be obtained from

the validation workshop, this final version of the report is prepared. The report will also be published on the online platform and in a proceeding form.

3. RESULTS

The tracer survey focused on leather and leather products technology graduates of Ethiopian Technical University. All the traced graduates are based in TVET institutions and agencies in different regions of the country. Therefore, the data that comes from both the graduates and employers are analyzed, and the results and findings are presented in the following subsection of this chapter.

3.1. Graduates' Findings

Initially, it was proposed in this tracer study to consider all 27 of Leather & Leather Products Technology. But, the exact location of 2 graduates could not be known and the mobile number they provided when joining the Ethiopian Technical University was not working.

This made the total number of graduates involved in this tracer study to be 25. Hence, the overall response rate of this tracer study became 92.6%.

3.1.1. Socio-Demographic Characteristics

This section describes graduates' socio-demographic information, gender, civil status, age, year of graduation, and the number of children. Table 1 presents the frequency distribution of the socio-demographic characteristics of the graduates of leather & leather products technology.

Table 1: The socio-demographic characteristics of traced graduates

Socio-demographic		Number of graduates	Percentage (%)
Characteristics			
Gender	Male	24	96.0
Gender	Female	1	4.0
Civil Status	Single	7	28.0
Civii Status	Married	18	72.0
	Below 25	0	0.0
Aga (vaara)	Between 25-34	20	80.0
Age (years)	Between 35-44	3	12.0
	Above 44	2	8.0
Voor of graduation	2019	25	100.0
Year of graduation	2020	0	0.0

Of the total 25 graduates involved in this tracer study, most (96%) graduates are males and the remaining 1 (4%) is female.

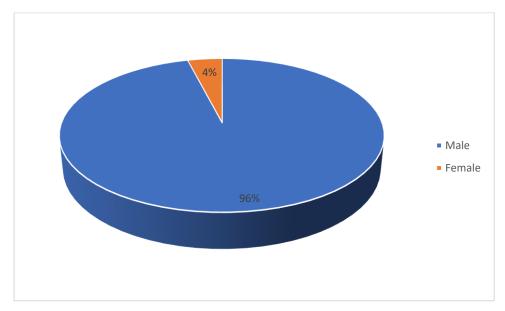


Figure 1: The gender combination of traced graduates

Also, 7 (28.0%) of the graduates were single while 18 (72.0%) were married at the time of the interview. Besides, more than three-fourth (80.0%) of the graduates were between the age of 25-34 years. But, there was no graduate whose age was below 25 years.

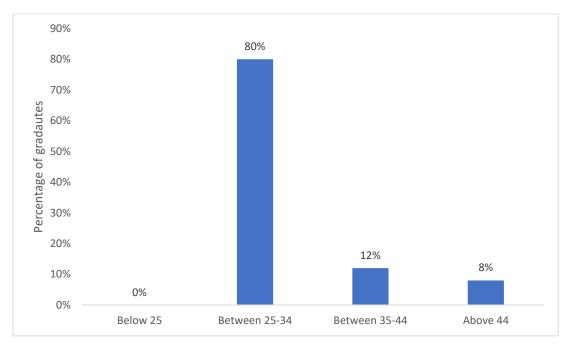


Figure 2: The age of traced graduates

Concerning the graduation years, all (100.0%) of the graduates were graduated in 2019. The unibersity did not graduate in the year 2020 due to COVID-19 pandemic and postponed to the year 2021.

3.1.2. Employability of Graduates

Below, the distribution of the characteristics related to the employability of the traced graduates is explained. In particular, the findings of the type of employment, employment status, industry sector the graduates are working, the region they are working, the duration they took to find their job after graduation, and the means (media) used to find their first job are examined.

3.1.2.1. Employment Condition

All the 25 (100%) graduates, male (96%) and female (4%), in the department of leather & leather products technology are employed in government organizations within six months after graduation. All of the graduates are employed on a permanent basis and working as full-time (40 hours per week) employees.

Table 2: The employment characteristics of traced graduates

		Count	%
	Employed in a government organization	25	100.0
Type of employment	Self-employed with employees	0	0.0
Type of employment	Self-employed without employees	0	0.0
	Neither employed nor self-employed	0	0.0
	Permanent	25	100.0
Employment status	Temporary	0	0.0
Employment status	Contractual	0	0.0
	Part-time	0	0.0
Working hours	Mean ± SD	40 =	± 0
	Manufacturing	0	0.0
	Construction	0	0.0
Industry sector	Wholesale and retail trade	0	0.0
muusii y sectoi	Transportation and storage	0	0.0
	Education and training	25	100.0
	Other	0	0.0

Concerning the sector of employment, 25 (100.0%) of the graduates are working in the Education and Training sector (that is, in TVET institutions).

3.1.2.2. Employment per Region

Of all these leather & leather products technology graduates, more than (52.0%) were employed in the Addis Ababa city administration. And 5 (20.0%) of the graduates were employed in Amhara region and 7 (28.0%) of the graduates were employed in Oromia region as presented in Table 3 and Figure 3.

	<u> </u>	1 0 1 0
Region	Number of graduates	Percentage (%)
Addis Ababa	13	52.0
Amhara	5	20.0
Benishangul	0	0.0
Dire Dawa	0	0.0
Harari	0	0.0
Oromia	7	28.0
Sidama	0	0.0
SNNPR	0	0.0

Table 3: The number of traced graduates employed per region

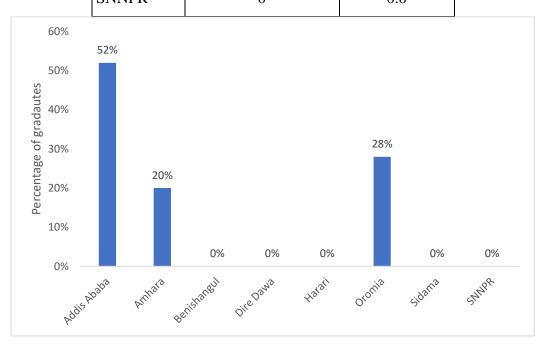


Figure 3: The regional employment distribution of traced graduates

3.1.2.3. Duration took to be Employed after Graduation

Of all the 25 graduates who participated in the tracer study, the present job of the graduates is their first job after their graduation for 20 (80%) of them. That is, 80.0% of the leather & leather products technology graduates were still on their first job after graduation as shown in Table 4. This implies that the leather & leather products technology training received at the

Ethiopian Technical University by these graduates were to a great extent relevant or matched the jobs available in the TVET sector.

Of those graduates whose current job is their first job, most of the graduates (60.0%) have taken below 3 months to be employed after their graduation and 8 (40.0%) have taken more than a year to secure their present job after their graduation.

Table 4: Job turnover and duration took to be employed after graduation

		Number of graduates	Percentage (%)
First job after	Yes	20	80.0
graduating?	No	5	20.0
Time took to	0-3 months	12	60.0
find present job	4-6 months	0	0.0
if it is the first job	7-9 months	0	0.0
after graduation	10-12 months	0	0.0
arter graduation	More than a year	8	40.0
Time took to find	0-3 months	4	80.0
present job	4-6 months	0	0.0
if it is not the first job	7-9 months	1	20.0
after graduation	10-12 months	0	0.0
arter gradaution	More than a year	0	0.0

On the other hand, of those graduates whose current job is not their first job after graduation, 4 (80.0%) and 1 (20.0%) of the graduates had taken 0-3 months and 7-9 months, respectively, to find their present job after graduation.

3.1.2.4. Medias Used to Find their First Job

Table 5 shows the frequency distribution of the means that leather & leather products technology graduates used to find their first job.

Table 5: Media of employment used by traced graduates

	Ye	Yes		0
	Count	%	Count	%
Newspaper /Television/Radio	10	40.0	15	60.0
Internet (e.g., government websites, company websites)	3	12.0	22	88.0
Relatives, friends or/and colleagues	4	16.0	21	84.0

Industry Linkages during training (e.g., apprenticeship, On the Job Training)	6	24.0	19	76.0
Referral/School Endorsement	4	16.0	21	84.0
Social networks (e.g., Facebook, LinkedIn)	0	0.0	25	100.0

Most (40.0%) of the graduates used printing and electronic media (Newspaper /Television/Radio) advertisements to find their first job. The next majority (16.0%) of the graduates got employed through industry linkages during training (e.g., apprenticeship, on-the-job training) which is compliant with the nature of TVET institutions. And, about 16% of the graduates used their relatives, friends or/and colleagues to be employed and the same percentage of graduates used referral/school endorsement.

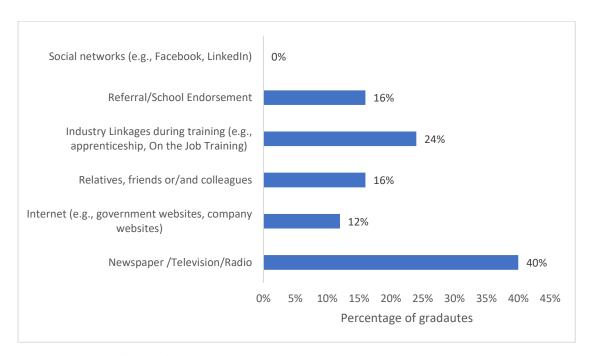


Figure 4: Media of employment used by traced graduates

None of the traced leather & leather products technology graduates used social networks like Facebook and LinkedIn as a means of employment.

3.1.3. The Relevance of Training and Skills Required

In this section, the relevance of training received by traced graduates in the leather & leather products technology departments at the Ethiopian Technical University is examined. It is also examined the relationship between the course and work, the important skills that are most helpful in performing their present job, and their previous experience and future need of participating in further training are assessed.

3.1.3.1. The Relation Between Course and Work

Of the total 25 graduates traced in this study, all (100.0%) of them believed that their present work is related to the course they followed at the Ethiopian Technical University. In particular, more than half (56.0%) agreed that the degree of relation between the course and work is high. The remaining 40.0% and 4.0% of the graduates believed that their present work has a moderate and slight degree of relation with the course they followed in the university, respectively.

Table 6: The perception of traced graduates in the relation between the course and job

		Count	%
Present work related	Yes	25	100.0
to course attended	No	0	0.0
Rate of relation between	Highly related	14	56.0
course and work	Moderately related	10	40.0
Course and Work	Slightly related	1	4.0
	Not at all	3	12.0
Rate of choosing again	Some extent	4	16.0
the same field of study	Great extent	11	44.0
	Very great extent	7	28.0

Looking back, if the graduates were free to choose again, 11 (44.0%) of the graduates would choose the same field of study to a great extent and 7 (28.0%) of the graduates would choose the same field of study to a very great extent.

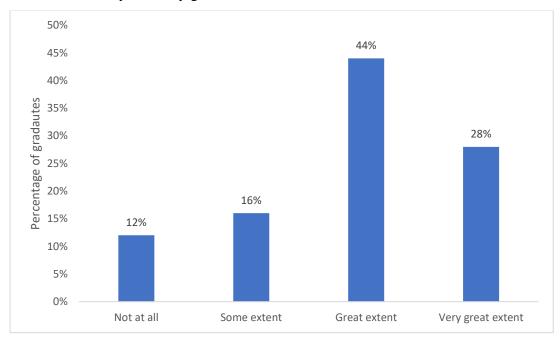


Figure 5: The extent of choosing the same field of study if graduates choose again

3.1.3.2. Required Areas for Performing the Job

In this tracer study, it is also tried to identify the areas of study (knowledge and skill) that helped the graduates in the performance at their present job, Table 7 and Figure 4. A majority (96.0%) of the graduates agreed that theoretical and practical knowledge related to their field of specialization helped them to perform their present job. The second required skill identified by the graduates is practical job-related skills (for example, the use of tools, equipment, and machinery) as identified by 21 (84.0%) of the graduates.

Table 7: The areas of skills that helped graduates to perform their current job

	Yes		No	
	Count	%	Count	%
Knowledge (theoretical and practical related to specialization)	24	96.0	1	4.0
Practical job-related skills (for example, use of tools, equipment, and machinery)	21	84.0	4	16.0
Communication skills (spoken and written)	19	76.0	6	24.0
ICT skills (use of computers)	17	68.0	8	32.0
Problem-solving skills (being able to analyze a problem and find creative solutions)	19	76.0	6	24.0
Work ethics (such as attendance at work, reliability, punctuality, teamwork)	14	56.0	11	44.0
Entrepreneurship skills (such as market research, business planning, financial management, leading)	19	76.0	6	24.0
Customer service skills (such as personal presentation, being polite, understanding a customer's needs)	12	48.0	13	52.0

Three skills (communication skills (spoken and written), problem-solving skills (being able to analyze a problem and find creative solutions), and entrepreneurship skills (such as market research, business planning, financial management, leading)) are ranked as third as they are helped 76.0% of the graduates to perform their current job.

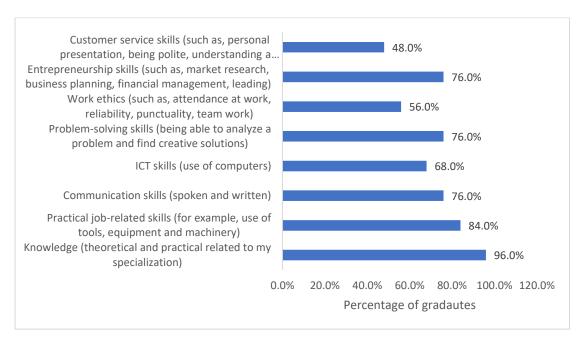


Figure 6: The areas of study that helped graduates to perform their current job

3.1.3.3. Participation in Further Training

Of all the 25 leather & leather products technology graduates, only 5 (20.0%) of graduates had taken some kind of further training courses after graduation. The type of courses graduates attended as part of further training include entrepreneurship, kaizen, CAD software, electrical electronics, ICT training, leather product designing and pattern making.

On the contrary, most (80.0%) of the graduates did not participate in any further training. The first three most common reasons for not participating in further training are the absence of opportunity for training (47.4%), absence of relevant course (26.3%), and not begin able to pay for the training (15.8%).

Table 8: Participation of graduates in further training courses after graduation

		Count	%
Participated in	Yes	5	20.0
further training	No	20	80.0
	No relevant course available	5	26.3
Reason for not	No need for further training	2	10.5
Participating in	No money to pay for	3	15.8
further training	Absence of opportunity	9	47.4
	Other (shortage of time,)	0	0.0
Want to attend	Yes	24	96.0
training courses	No	1	4.0

About 96% of the graduates would like to participate in further training courses (weekend or evening classes, short courses) in the future. This result indicates that almost all the graduates recognize the importance of further capacity and skill-building for promotion and career advancement.

3.1.4. The Level of Graduates' Job Satisfaction

Graduates were asked whether they are satisfied with their present job or not. Accordingly, 23 (92.0%) of them are satisfied with their current job.

Besides this, the graduates were also asked to what extent they are satisfied along 11 individual job satisfaction parameters on a five-point scale as 1=Not Satisfied, 2= Slightly Satisfied, 3=Moderately Satisfied, 4=Highly Satisfied, 5=Extremely Satisfied. The frequencies are presented in Table 9.

Table 9: The extent of job satisfaction level of traced graduates

	(1)		(2)		(3)		(4)		(5)	
	Count	%								
Interesting work tasks	0	0.0	1	4.0	4	16.0	13	52.0	7	28.0
Being able to work with some independence	0	0.0	3	12.0	1	4.0	16	64.0	5	20.0
Clear and regulated work tasks	1	4.0	1	4.0	9	36.0	11	44.0	3	12.0
Possibilities for applying what you learned when studying	0	0.0	5	20.0	5	20.0	8	32.0	7	28.0
Job security	0	0.0	3	12.0	5	20.0	6	24.0	11	44.0
Social status and recognition	2	8.0	4	16.0	1	4.0	10	40.0	8	32.0
Possibilities to put your own ideas into practice	0	0.0	4	16.0	3	12.0	9	36.0	9	36.0
Income and benefits	6	24.0	8	32.0	5	20.0	5	20.0	1	4.0
Good social climate / work setting	0	0.0	4	16.0	11	44.0	8	32.0	2	8.0
Good career advancement prospects	0	0.0	5	20.0	9	36.0	10	40.0	1	4.0

Being able to										
coordinate/supervise	1	4.0	2	8.0	4	16.0	12	48.0	6	24.0
work										

1=Not Satisfied 2= Slightly Satisfied, 3=Moderately Satisfied, 4=Highly Satisfied, 5=Extremely Satisfied.

According to the mean values of the items related to job satisfaction presented in Table 10, the top highest from the first to the fifth- level of satisfaction are the parameters *interesting* work tasks, being able to work with some independence, job security, possibilities to put your own ideas into practice, and being able to coordinate/supervise work.

Table 10: The mean job satisfaction levels of graduates

Items	μ	σ	z	R
Interesting work tasks	4.0	0.79	1.27	1 st
Being able to work with some independence	3.9	0.86	1.05	2 nd
Clear and regulated work tasks	3.6	0.92	0.65	6 th
Possibilities for applying what you learned when studying	3.7	1.11	0.63	7 th
Job security	4.0	1.08	0.93	3 rd
Social status and recognition	3.7	1.31	0.53	8 th
Possibilities to put your own ideas into practice	3.9	1.08	0.83	4 th
Income and benefits	2.5	1.19	-0.42	11 th
Good social climate / work setting	3.3	0.85	0.35	10 th
Good career advancement prospects	3.3	0.84	0.36	9 th
Being able to coordinate/supervise work	3.8	1.04	0.77	5 th
Overall	3.7	0.44		

 $\mu\text{=}Mean,\,\sigma\text{=}Standard\;Deviation,\,z\text{=}Standard\;Score,\,r\text{=}Rank.$

The mean score analyses of the 11 parameters of job satisfaction are also presented in Figure

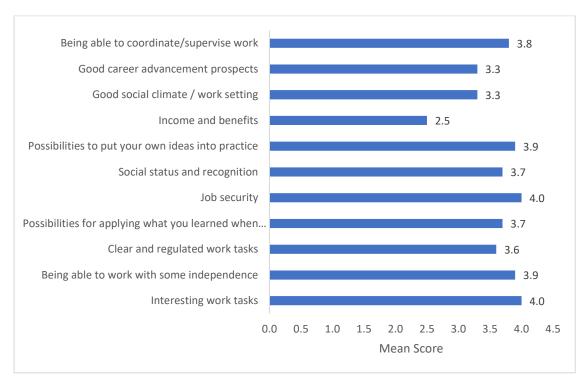


Figure 7: The level of job satisfaction of traced graduates

On the other hand, the standard score of income and benefits is negative. This is a clear indication that the graduates are highly dissatisfied with their job especially in terms of their income and benefits.

3.1.5. Graduates' View on the Study Conditions and Provisions

The questionnaire designed for graduates also consisted of questions related to the teaching-learning conditions and provisions that the graduates experienced at the Ethiopian Technical University. Such assessment of graduates' views towards their work and the course of study provides an opportunity to highlight some of the areas where the university should focus teaching-learning process.

There was a total of 26 factors considered for measuring the study conditions and provisions of the university and each item was rated on the five-point scale as 1=Bad, 2=Fair, 3=Good, 4=Very Good, 5=Excellent. The frequency distributions of the rating scales for all the 26 factors of the study conditions and provisions are presented in Table 10, and the mean scores of the items are also presented in Figure 8.

Table 10: The extent of graduates' view on the study conditions and provisions

	(1)		(2))	(3)		(4)		(5))
	Count	%								
Theoretical training related to	0	0.0	1	4.0	5	20.0	12	48.0	7	28.0
the occupation		0.0	1	4.0	3	20.0	12	46.0	,	28.0
Practical use of computers	0	0.0	7	28.0	8	32.0	9	36.0	1	4.0
Practical use of working tools	1	4.0	6	24.0	7	28.0	9	36.0	2	8.0
Practical use of machines and	3	12.0	6	24.0	7	28.0	7	28.0	2	8.0
equipment	3	12.0	0	24.0	,	20.0	,	20.0	2	0.0
Practical use of materials and	3	12.0	5	20.0	7	28.0	7	28.0	3	12.0
parts	3	12.0	3	20.0	,	20.0	,	20.0	3	12.0
Theory and practice of	1	4.0	3	12.0	11	44.0	8	32.0	2	8.0
equipment maintenance	1	4.0	3	12.0	11	44.0	0	32.0	2	0.0
Understanding and producing	3	12.0	1	4.0	9	36.0	12	48.0	0	0.0
drawings	3	12.0	1	4.0		30.0	12	40.0		0.0
Doing measurements at work	0	0.0	6	24.0	7	28.0	10	40.0	2	8.0
Use of written instructions and	1	4.0	5	20.0	6	24.0	8	32.0	5	20.0
working guides	1	4.0	3	20.0	U	24.0	0	32.0	3	20.0
Communication	1	4.0	0	0.0	4	16.0	16	64.0	4	16.0
Working with other people	0	0.0	0	0.0	6	24.0	13	52.0	6	24.0
Knowledge of national laws	0	0.0	4	16.0	10	40.0	8	32.0	3	12.0
How to work in a safe way	1	4.0	1	4.0	11	44.0	9	36.0	3	12.0
How to do high quality work	1	4.0	2	8.0	8	32.0	13	52.0	1	4.0
Discipline and accuracy at	0	0.0	1	4.0	7	28.0	12	48.0	5	20.0
work		0.0	1	4.0	,	26.0	12	46.0	3	20.0
How to start a business	4	16.0	3	12.0	4	16.0	10	40.0	4	16.0
General education subjects	0	0.0	2	8.0	6	24.0	12	48.0	5	20.0
Management of the institution	3	12.0	3	12.0	7	28.0	12	48.0	0	0.0
Standard of buildings,										
classrooms and	3	12.0	2	8.0	7	28.0	10	40.0	3	12.0
workshops/labs										
Recreational activities	2	8.0	5	20.0	10	40.0	7	28.0	1	4.0
Support from teachers	1	4.0	3	12.0	8	32.0	12	48.0	1	4.0
Competence of teachers	2	8.0	1	4.0	13	52.0	7	28.0	2	8.0
Teachers' experience of	4	16.0	7	28.0	6	24.0	6	24.0	2	8.0
industry	4	10.0	/	20.0	U	24.0	U	24.0		6.0

Career's advice	4	16.0	4	16.0	4	16.0	12	48.0	1	4.0
Providing internship/industry-based training	3	12.0	9	36.0	2	8.0	5	20.0	6	24.0
Help in finding a job	7	28.0	4	16.0	4	16.0	8	32.0	2	8.0

1=Bad, 2=Fair, 3=Good, 4=Very Good, 5=Excellent.

The first five highest experiences are working with other people, theoretical training related to the occupation, communication, discipline and accuracy at work, and general education subjects. Lowest experiences are observed in help in finding a job, teachers' experience of the industry, recreational activities, practical use of machines and equipment, career's advice, practical use of materials and parts, and management of the institution, Table 11.

Table 11: Graduates' view on the study conditions and provisions

Items	μ	σ	Z	r
Theoretical training related to the occupation	4.0	0.82	1.2	2 nd
Practical use of computers	3.2	0.90	0.2	14 th
Practical use of working tools	3.2	1.04	0.2	14 th
Practical use of machines and equipment	3.0	1.17	0.0	23 rd
Practical use of materials and parts	3.1	1.22	0.1	19 th
Theory and practice of equipment maintenance	3.3	0.94	0.3	11 th
Understanding and producing drawings	3.2	1.00	0.2	14 th
Doing measurements at work	3.3	0.95	0.3	11 th
Use of written instructions and working guides	3.4	1.16	0.4	8 th
Communication	3.9	0.83	1.1	3 rd
Working with other people	4.0	0.71	1.4	1 st
Knowledge of national laws	3.4	0.91	0.4	8 th
How to work in a safe way	3.5	0.92	0.5	6 th
How to do high quality work	3.4	0.87	0.5	6 th
Discipline and accuracy at work	3.8	0.80	1.1	3 rd

How to start a business	3.3	1.34	0.2	14 th
General education subjects	3.8	0.87	0.9	5 th
Management of the institution	3.1	1.05	0.1	19 th
Standard of buildings, classrooms and workshops/labs	3.3	1.18	0.3	11 th
Recreational activities	3.0	1.00	0.0	23 rd
Support from teachers	3.4	0.91	0.4	8 th
Competence of teachers	3.2	0.97	0.2	14 th
Teachers' experience of industry	2.8	1.22	-0.2	25 th
Careers advice	3.1	1.22	0.1	19 th
Providing internship/industry-based training	3.1	1.44	0.1	19 th
Help in finding a job	2.8	1.39	-0.2	25 th
Overall	3.3	0.33		

μ=Mean, σ=Standard Deviation, z=Standard Score, r=Rank.

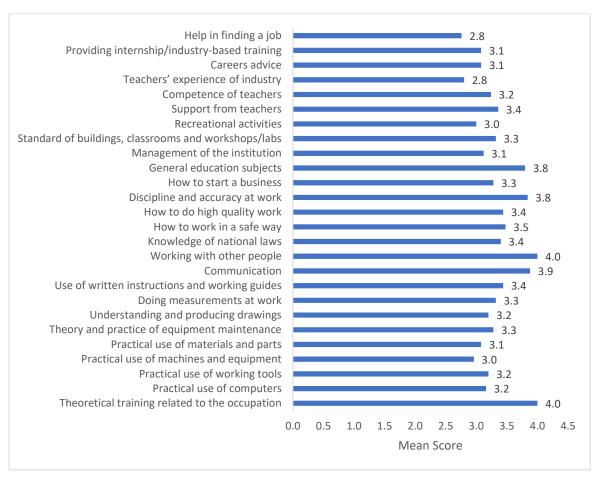


Figure 8: Means scores of graduates' view on the study conditions and provisions at the ETU

3.1.6. Graduates Comments and Suggestions

Graduates were also asked to put their concerns about any changes that they would recommend for the Ethiopian Technical University study programs of leather & leather products technology. The major points raised in the order of the frequencies of the graduates from high to low are categorized into four as practical training, curriculum development, course composition, and quality of trainer, and each aspect described below.

- **Practical Training**: Most courses are theoretical, there is no enough practical exercise. The theoretical training should be related to practical training especially drawing. The major courses must be involved with industries internship/apparent ship and the university should also work with industries in order to enhance practical skills. There are shortage of machinery and equipment, and shortage of raw materials. The workshops should be organized.
- Curriculum: The curriculum does not fit with TVET programs and is not related to the demand of the industries. Hence, the curriculum should be revised taking the experience of old universities of the country and the graduate profile should be improved to make graduates participate in different industries and organizations

- Course composition: The influence of pedagogy courses is very high. They used
 more credit hours than the credit of major courses. Thus, major courses should have
 given sufficient credits and the credit hours for pedagogy courses should be
 minimized.
- Quality of trainers: Instructors have skill gaps and language problems. They can be skilled in the theoretical part but they lack the practical one. Hence, the competency of trainers should be examined carefully when hiring especially foreigners. It is better to build the capacity of local staff instead of using foreigners. Besides, experienced technicians should be hired for giving practical training.

3.2. Findings from Employers' Perspective

This section provides the basic findings on the level of employers' satisfaction with regards to the skills and performance level of graduates of leather & leather products technology. It also examines an assessment of the effectiveness, relevance, and outcomes of the training process of the program in the world of work from the employers' perspective.

3.2.1. Employers Involved and Number of Interviews

As described earlier in the previous chapter, all the graduates are employed in government organizations. Particularly, the traced graduates are employed in 41 different organizations of which 39 are TVET institutions and the remaining 2 are TVET agencies. Of these employing organizations, 7 of them are found in Addis Ababa city administration, 12 in Amhara region, 1 in Assosa region, 2 in Dire Dawa city administration, 2 in Harari, 13 in Oromia region, 2 in Sidama region, and 2 in SNNP region.

From each employing institution, up to three persons who have some position in the institution or agency were interviewed. Basically, the interviews are made with the dean or associate dean, and leather department heads of each TVET institution. The reason for increasing the number of interviewees from each employing organization is for the purpose of increasing the accuracy of measuring the effectiveness and relevance of training.

Therefore, a total of 88 respondents were interviewed from all 41 employing organizations as presented in Table 12.

Table 12: Number of respondents participated from each TVET institutions and agencies

		Position						
		Director/ Deputy Director	Dean/ Associate Dean	Dep't/ Section Head	Tot al			
	Arada Manufacturing College	0	1	1	2			
	Entoto PTC	0	1	2	3			
A 1 1'	Federal TVET Agency	0	0	1	1			
Addis	General Wingate PTC	0	1	2	3			
Ababa	Lideta Manufacturing College	0	1	2	3			
	Misrak PTC	0	1	2	3			
	Yeka Industrial College	0	1	1	2			
	Addis Zemen TVET College	0	1	1	2			
	Bahir Dar PTC	0	1	1	2			
	Debre Birhan PTC	0	1	2	3			
	Debre Markos PTC	0	1	1	2			
	Debre Tabor PTC	0	1	1	2			
	Durbete PTC	0	1	1	2			
Amhara	Injibara PTC	0	1	1	2			
	Kemissie PTC	0	1	1	2			
	Kombolcha PTC	0	0	1	1			
	Mehal Meda TVET College	0	1	1	2			
	W/ro Siheen PTC	0	1	1	2			
	Woldia PTC	0	1	2	3			
Assosa	Assosa PTC	0	1	1	2			
Dire	Dire Dawa PTC	0	1	1	2			
Dawa	Ethio-Italy PTC	0	1	1	2			
	Harar PTC	0	1	1	2			
Harari	Harari TVET Agency	1	0	0	1			
	Arba Gugu TVET College	0	1	1	2			
	Atlet Kenenisa PTC	0	1	2	3			
	Bekoji PTC	0	1	1	2			
	Diga TVET College	0	1	1	2			
	Fiche PTC	0	1	1	2			
	Gelan TVET College	0	1	1	2			
Oromia	Gimbi PTC	0	1	1	2			
Oronna	Gutte TVET College	0	1	1	2			
	Jimma PTC	0	1	1	2			
	Limu Gelila TVET College	0	1	1	2			
	Modjo TVET College	0	1	2	3			
	Nekemt TVET College	0	1	2	3			
	Sebeta PTC	0	1	1	2			
	Hawassa PTC	0	1	1	2			
Sidama	Yirgalem TVET College	0	1	1	2			
	Arba Minch PTC	0	1	1	2			
SNNP	Boditi Industrial and Construction	U	1	1				
DIMIME	College	0	1	1	2			
Total		1	38	49	88			

The socio-demographic, educational and other background characteristics of the respondents interviewed from the TVET institutions and agencies are presented in Table 13.

3.2.2. Background Characteristics of Respondents

Of the 88 respondents representing the employing TVET institutions and agencies, 85 (96.3%) of them were males while only 3 (3.4%) were females. More than half (52.3%) of them were between the age of 25-34 years at the time of the interview.

Concerning to academic qualification, more than half (51.1%) were Bachelor's degree holders, 43.2% of them were Master's degree holders and there were 5 (5.7%) respondents who hold a diploma or below. But there no individuals who hold a PhD degree.

With regard to the administrative position of respondents, more than half (55.7%) of the interviewed individuals were department/section heads. And, 43.2% were deans or associate deans of the corresponding TVET institutions. From the TVET agencies' side, only 1 director/deputy director is interviewed.

 Table 13: Socio-demographic and background characters of respondents

		Count	%
Sex	Male	85	96.6
BCA	Female	3	3.4
	Between 25-34	46	52.3
Age	Between 35-44	32	36.4
	Above 44	10	11.4
Marital status	Single	18	20.5
Wantar Status	Married	70	79.5
	Diploma or below	5	5.7
Educational level	BSc/BA/BEd	45	51.1
Educational level	MSc/MA/Med	38	43.2
	PhD	0	0.0
	Director/Deputy Director	1	1.1
Position	Dean/Associate Dean	38	43.2
	Department/Section Head	49	55.7
	Manufacturing Technology	41	46.6
Field of study	Leather Technology	7	8.0
	Other	40	45.5

With respect to fields of study, 41 (46.6%) of the respondents were graduated in manufacturing technology, 7 (8.0%) were graduated in leather and leather products

technology, and the rest 40 (45.5%) of the respondents (most of which are deans or associate deans) were graduated in other fields of study like agriculture, MIS, IT, construction, business management, TVET leadership, computer science, accounting, electrical communication, textile, MBA, project management, etc.

3.2.3. Employers' Recruitment and Selection Criteria

This section explains employers' methods of recruitment of graduates of leather & leather products technology graduates, the important aspects the employers will consider when selecting candidate graduates, the level of satisfaction with the quality of training received by the graduates, the level of satisfaction of employers by the graduates' demonstration of their knowledge and skills, type of skill shortages employers face when recruiting graduates, problems observed in employed graduates, the type of training the employers would like for employed graduates, and suggestions and recommendation forwarded by employers about the leather & leather products technology study program of the university.

3.2.3.1. Method of Recruiting Graduates

The frequency distribution of the different kinds of procedures that the organizations use to recruit graduates of leather & leather products technology are presented in Table 14 and Figure 7.

Table 14: Methods used by employers to recruit graduates for employment

	Ye	S	No)
	Count	%	Count	%
Advertisements of vacancies in newspapers (such as daily papers)	50	56.8	38	43.2
Advertisements in the Internet	15	17.0	73	83.0
Internal advertisements of vacancies	24	27.3	64	72.7
Direct application by graduates	18	20.5	70	79.5
Personal contacts to graduates	15	17.0	73	83.0
Private employment agencies	3	3.4	85	96.6
Other	7	8.0	81	92.0

As presented in both the table and figure, 56.8% of the respondents believed that they used *advertisements of vacancies in newspapers (such as daily papers)* to recruit graduates and 27.3% of them believed that they use *Internal advertisements of vacancies*.

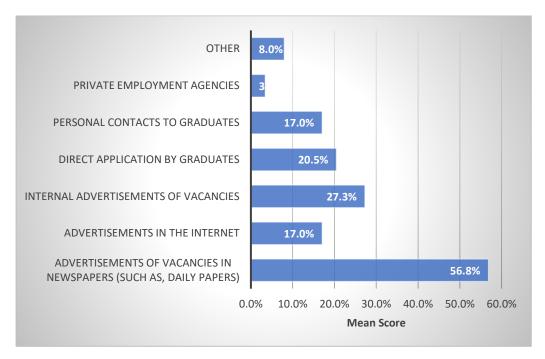


Figure 9: The methods used by the TVET institutions and agencies to recruit graduates

3.2.3.2. Important Aspects for Selecting Graduate Candidates

Employers were also asked to rate how important in general they consider different recruitment aspects for selecting graduates for employment on a five-point scale: 1=Not at all important, 2=Somewhat Important, 3=Important, 4=Very Important, 5=Extremely Important, Table 15 and Figure 9.

The first five factors that are most important from the employers' perspective to recruiting graduates are field of study, the main focus of subject area/specialization, results of recruitments tests, Practical experience acquired during course of study, and Communication skills.

Table 15: Importance of factors considered by employers to select graduates for employment

		(1)		(2)		(3)		(4)		(5)		Summary		
	n	%	n	%	n	%	n	%	n	%	μ	σ	Z	r
Field of study	0	0.0	0	0.0	5	5.7	33	37.5	50	56.8	4.5	0.61	2.5	1 st
Main focus of subject area/specialization	0	0.0	0	0.0	8	9.1	44	50.0	36	40.9	4.3	0.64	2.1	2 nd
Grades of examinations at the TVET Institute	4	4.5	0	0.0	16	18.2	46	52.3	22	25.0	3.9	0.92	1.0	5 th
Practical experience acquired during course of study	2	2.3	3	3.4	18	20.5	35	39.8	30	34.1	4.0	0.95	1.1	4 th

Reputation of TVET Institute	8	9.1	5	5.7	30	34.1	28	31.8	17	19.3	3.5	1.14	0.4	10 th
Recommendations/references from third persons	13	14.8	16	18.2	21	23.9	29	33.0	9	10.2	3.1	1.24	0.0	11 th
Results of recruitments tests	0	0.0	0	0.0	14	15.9	40	45.5	34	38.6	4.2	0.71	1.7	3 rd
Communication skills	1	1.1	5	5.7	23	26.1	31	35.2	28	31.8	3.9	0.95	1.0	5 th
Personal presentation	2	2.3	7	8.0	23	26.1	39	44.3	17	19.3	3.7	0.95	0.7	7 th
Personality and behavior	3	3.4	7	8.0	21	23.9	36	40.9	21	23.9	3.7	1.02	0.7	7^{th}
Candidate's own world view	2	2.3	12	13.6	25	28.4	32	36.4	17	19.3	3.6	1.03	0.6	9 th
Overall											3.9	0.40		

n=Count, μ=Mean, σ=Standard Deviation, z=Standard Score, r=Rank.

But, recommendations/references from third persons and the reputation of the institute have not that much importance in recruiting graduates for employment.

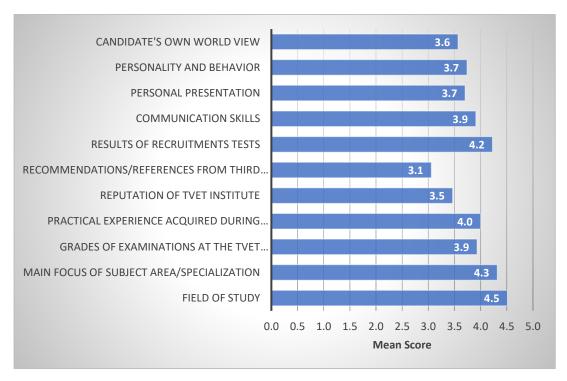


Figure 8: Mean score of factors considered by employers to select graduates for employment

3.2.4. The Level of Satisfaction of Employers

3.2.4.1. Overall Satisfaction of Employers

Overall, most (39.8%) of the respondents are satisfied by the quality of training received by the graduates of leather & leather products technology at the Ethiopian Technical University, Figure 9.

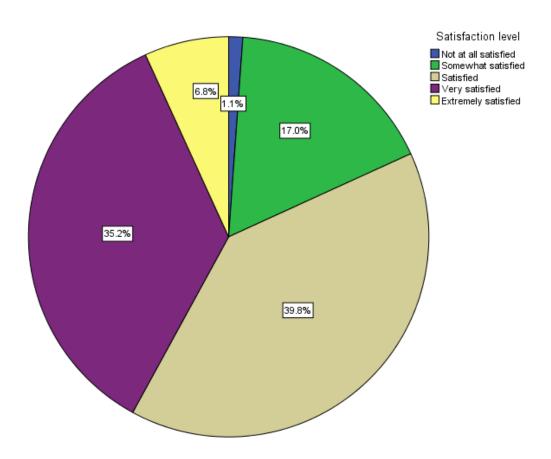


Figure 11: Overall satisfaction of employers by the quality of graduates training

Also, 35.2% and 39.8% of the respondents were very and extremely satisfied by the quality of graduates, respectively.

3.2.4.2. Satisfaction by Graduates' Knowledge and Skills

Employers were also asked to what extent they are satisfied with the leather & leather products technology graduates' demonstration of 17 different aspects related to knowledge and skill. Each factor was rated on a five-point scale as 1=Not at all satisfied, 2=Somewhat satisfied, 3=Satisfied, 4=Very satisfied, 5=Extremely satisfied.

The frequencies of the rating scale and the mean, standard deviation, and standard score (z-score) of each factor are rated in Table 16. The first five factors that the employers were in the highest level of satisfaction are *working with other people*, *theoretical training related to*

the occupation, discipline, and accuracy at work, understanding and producing drawings, and how to work safely.

 Table 16: Satisfaction of employers by employed graduates

	(1))	((2)	((3)	((4)	((5)		Sumi	mary	7
	n	%	n	%	n	%	n	%	n	%	μ	σ	Z	r
Theoretical training	1	1.1	9	10.2	26	29.5	38	43.2	14	15.9	3.6	0.91	0.7	2 nd
related to the occupation	1	1.1	1	10.2	20	27.3	50	73.2	17	13.7	3.0	0.71	0.7	
Practical use of	7	8.0	21	23.9	25	28.4	27	30.7	8	9.1	3.1	1.11	0.1	14 th
computers														
Practical use of working tools	2	2.3	8	9.1	28	31.8	39	44.3	11	12.5	3.6	0.91	0.6	4 th
Practical use of	2	2.3	15	17.0	29	33.0	28	31.8	14	15.9	3.4	1.03	0.4	9 th
machines and equipment		2.5	13	17.0		33.0	20	31.0	11	13.7	٥.١	1.03	0.1	
Practical use of	2	2.3	15	17.0	29	33.0	27	30.7	15	17.0	3.4	1.04	0.4	9 th
materials and parts				1,,0						1,10	-	110.	•••	
Theory and practice of equipment maintenance	10	11.4	19	21.6	31	35.2	25	28.4	3	3.4	2.9	1.05	0.1	16 th
Understanding and	4	4.5	19	21.6	21	23.9	34	38.6	10	11.4	3.3	1.08	0.3	12 th
producing drawings	'	1.5	1)	21.0	21	23.7	51	30.0	10	11,1	3.3	1.00	0.5	12
Doing measurements at	1	1.1	12	13.6	24	27.3	35	39.8	16	18.2	3.6	0.98	0.6	4 th
work	•	1.1		10.0		27.5		37.0	10	10.2	2.0	0.70	0.0	•
Use of written				4-0						40.		0.00		-th
instructions and working	1	1.1	15	17.0	26	29.5	37	42.0	9	10.2	3.4	0.93	0.5	7 th
guides			10	10.5	20	21.0	2.5	40.0	4.4	10.5	2.5	0.02	0.5	= th
Communication	1	1.1	12	13.6	28	31.8	36	40.9	11	12.5	3.5	0.92	0.5	7 th
Working with other people	0	0.0	9	10.2	17	19.3	38	43.2	24	27.3	3.9	0.93	0.9	1 st
Knowledge of the	5	5.7	17	19.3	31	35.2	30	34.1	5	5.7	3.1	0.99	0.1	14 th
industry	5	5.1	1 /	17.3	31	33.2	50	37.1	J	3.1	3.1	0.77	0.1	17
How to work in a safe way	1	1.1	11	12.5	24	27.3	43	48.9	9	10.2	3.5	0.88	0.6	4 th
How to do high quality	3	3.4	14	15.9	27	30.7	38	43.2	6	6.8	3.3	0.95	0.4	9 th
work	J	3.4	14	13.9	21	30.7	30	43.2	O	0.0	5.5	0.93	0.4	9
Discipline and accuracy	2	2.3	10	11 4	21	23.9	32	36.4	23	26.1	3 7	1.05	0.7	2 nd
at work		2.5	10	11.7	<u>~1</u>	23.7	22	JU.7	23	20.1	5.7	1.03	0.7	
How to start a business	11	12.5	30	34.1	23	26.1	18	20.5	6	6.8	2.8	1.13	0.2	17 th
General education subjects	3	3.4	18	20.5	32	36.4	30	34.1	5	5.7	3.2	0.94	0.2	13 th
Overall											3.4	0.29		

1=Not at all satisfied, 2=Somewhat satisfied, 3=Satisfied, 4=Very satisfied, 5=Extremely satisfied, n=Count, μ =Mean, σ =Standard Deviation, z=Standard Score, r=Rank.

On the other hand, employers have the lowest level of satisfaction in the aspects of *How to* start a business, Theory and practice of equipment maintenance, Practical use of computers, Knowledge of the industry, and General education subjects.

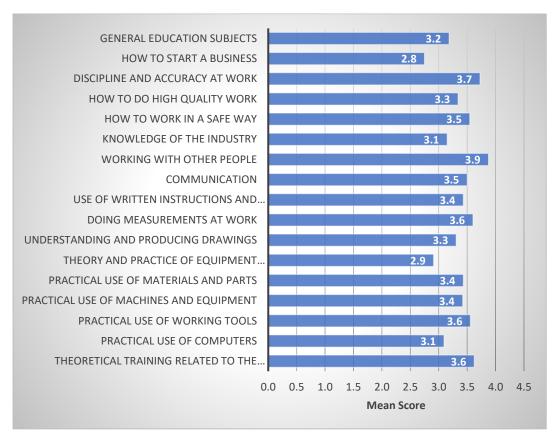


Figure 12: Mean satisfaction scores of employers by the graduates

3.2.5. Skill Shortages faced by Employers

Looking at to what extent employers face skills shortages, Table 17, among the graduates of leather & leather products technology, the highest level of severity faced to recruit technicians/ engineers and supervisory/ management level graduate. But there is no difficulty of skill shortages in recruiting semi-skilled and skilled candidates.

Table 17: Skill shortages faced by employers to select graduates

	((1)		(2)		(3)		(4)		(5)		Summary			
	n	%	n	%	n	%	n	%	n	%	μ	σ	Z	r	
Semi-skilled	19	21.6	23	26.1	27	30.7	14	15.9	5	5.7	2.6	1.16	-0.4	4 th	
Skilled worker	8	9.1	24	27.3	30	34.1	23	26.1	3	3.4	2.9	1.01	-0.1	3 rd	
Technician/ engineer	4	4.5	19	21.6	24	27.3	29	33.0	12	13.6	3.3	1.10	0.3	1 st	
Supervisory/ management	6	6.8	20	22.7	19	21.6	32	36.4	11	12.5	3.3	1.15	0.2	2 nd	

 $\overline{1}$ =Not at all severe, 2=Somewhat severe, 3=Severe, 4=Very severe, 5=Extremely severe, n=Count, μ=Mean, σ=Standard Deviation, z=Standard Score, r=Rank.

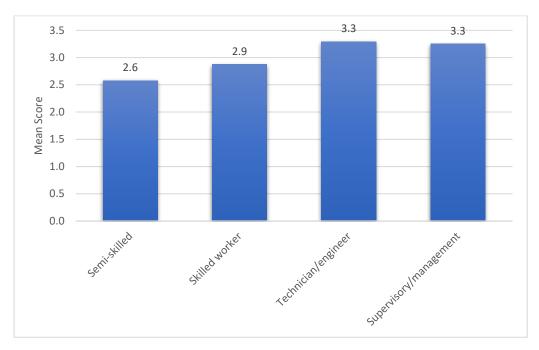


Figure 13: Skill shortages faced by employers to recruit graduates for employment

3.2.6. Training in Need by Employers

Employers also identified the need for additional training for graduates of leather & leather products technology to do the work well in their company. About 75% of the respondents said that the graduates need to learn some additional skills and 34.1% of the respondents responded that the graduates need serious skills upgrading to start working.

Table 18: Training needs identified by employers for graduates

	Ye	S	No)
	Count	%	Count	%
Normally they are fully prepared to do the work well	9	10.2	79	89.8
They need only an introductory training	12	13.6	76	86.4
They need to learn some additional skills	66	75.0	22	25.0
They need serious skills upgrading to start working	30	34.1	58	65.9
They need completely new training	12	13.6	76	86.4

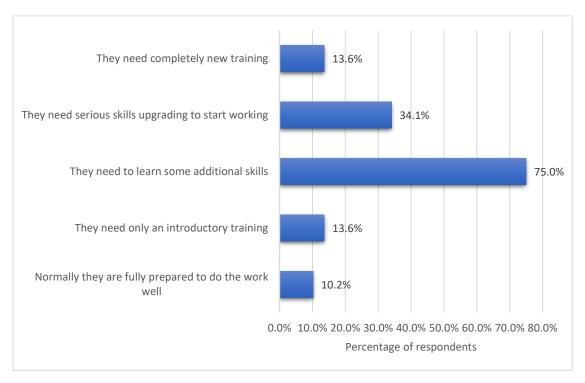


Figure 14: Training needs identified by employers for graduates

3.2.7. Problems Experienced by Employers

Of the total 88 respondents selected from the 41 employers, 59 (67.0%) of the respondents reported that their organizations have experienced problems finding graduates of leather & leather products technology with the skills that they need. Some of the problems mentioned by the respondents were

- Practical skill gap problem,
- Lack of initiation for practical work,
- Technical skills problems including computer skills,
- New machine adaptability problem,
- Unable to produce a quality product,
- Lack of confidence,
- Unwillingness to work in TVET institutions and want to do other work in a better place other than teaching,
- Problem of giving attention to the TVET strategy
- Problem of communication skills,
- Life skill problems,
- Work discipline,
- Negative behavioral and attitudinal problems.

3.2.8. Employers' Comments and Suggestions

Employers also recommend the following important changes for the Ethiopian Technical University's program of study in the field of leather & leather products technology.

- Practical courses should be added
- The curriculum should be revised with the recent technologies.
- Computerized training should be included.
- Most of the competencies should be related to digitalization.
- Individual project-based training should be delivered.
- On-job short-term training should be given to all graduates.
- Beter to open an MSc program in leather & leather products technology since there is no MSc study in the country.
- Satellite colleges should be established in other TVET institutions of the country.
- The TVET strategy attitude should be bold.
- Management of the university and the trainees should have a regular meeting.
- Better also to involved the regional TVET bureaus and agencies in some part of the study.

4. CONCLUSIONS AND RECOMMENDATIONS

The conclusions and recommendations from the basic findings of this tracer study are presented in two sub-sections below. The first is the conclusions and recommendations based on the graduates' perspective and the second one is from the employers' perspective.

4.1. Graduates' Perspective

- Most (96.0%) of the graduates are males whereas only 4.0% of the graduates are females. This result indicates that male dominance over females. It is necessary to consider having gender balance within in leather & leather products technology department. Hence, it is better for the Ethiopian Technical University to have gender consideration during admission so as to have more female trainees enroll for the future in the department.
- Concerning the sector of employment, 25 (100.0%) of the graduates are working in the Education and Training sector (that is, in TVET institutions) found in Addis Ababa city administration (52.0%), Amhara region (20.0%) and Oromia region (28.0%). About 80.0% of the graduates were still on their first job after graduation. Of those graduates whose current job is their first job, most of the graduates (60.0%)

have taken below 3 months to be employed after their graduation. Most (40.0%) of the graduates used print and electronic media (Newspaper /Television/Radio) advertisements to find their current job. The next majority (16.0%) of the graduates got employed through industry linkages during training (e.g., apprenticeship, on-the-job training) which is compliant and the most popular means of securing employment for the TVET sector.

- All (100.0%) of the graduates believed that their present work is related to the course they followed at the Ethiopian Technical University. In particular, more than half (56.0%) agreed that the degree of relation between the course and work is high. The remaining 40.0% and 4.0% of the graduates believed that their present work has a moderate and slight degree of relation with the course they followed in the university, respectively. A majority (96.0%) of the graduates agreed that theoretical and practical knowledge related to their field of specialization helped them to perform their present job. The second required skill identified by the graduates is practical job-related skills (for example, the use of tools, equipment, and machinery) as identified by 21 (84.0%) of the graduates. Therefore, the training program should concentrate on theoretical and practical knowledge, and practical job-related skills.
- Looking at the further training need of the traced graduates, only 20.0% of graduates had taken some kind of further training courses after graduation such as entrepreneurship, kaizen, CAD software, electrical electronics, ICT training, leather product designing and pattern making. On the contrary, most (80.0%) of the graduates did not participate in any further training because of absence of training opportunity (47.4%), absence of relevant course (26.3%), and not begin able to pay for the training (15.8%).
- About 96% of the graduates would like to participate in further training courses (weekend or evening classes, short courses) in the future. This result indicates that almost all the graduates recognize the importance of further capacity and skill-building for promotion and career advancement. This result indicates that, since the Ethiopian Technical University is the only technical university in the country, it might be taken as one of the major functions of the university to capacitate these graduates. Therefore, the university is expected to organize a sufficient number of training opportunities in relevant areas of the leather & leather products technology free of charge.

- About 92.0% of the graduates are satisfied with their current job. Concerning the specific job satisfaction parameters, the first top-five aspects that the graduates have higher level of satisfaction are *interesting work tasks*, *being able to work with some independence*, *job security*, *possibilities to put your own ideas into practice*, and *being able to coordinate/supervise work*. On the contrary, the satisfaction level of the graduates is the lowest in terms of *income and benefits*. This is an indication that the graduates are highly dissatisfied with their job in terms of their income and benefits.
- The first five highest experiences are working with other people, theoretical training related to the occupation, communication, discipline and accuracy at work, and general education subjects. Lowest experiences are observed in help in finding a job, teachers' experience of the industry, recreational activities, practical use of machines and equipment, career's advice, practical use of materials and parts, and management of the institution. Hence, these findings highlight that the university should focus on graduates to secure employment either to be employed somewhere or to start their own business (self-employed). In addition, the university should work in exposing both trainers and graduates to practical industrial experiences.
- Overall, the traced graduates suggested the training to be and focus more on the practical skills. They also recommended the curriculum to be revised, the course composition to be reviewed, and the quality trainers to be improved.

4.2. Employers' Perspective

- Of the different media of announcements for calling candidate graduate employees,
 most (56.8%) of the respondents believed that they used regular job vacancy
 advertisements of vacancies in newspapers (such as daily papers) to recruit graduates.
 Hence, graduates are recommended to search and look for the common newspapers
 that might post different vacancy announcements.
- The first five most important factors that employers consider in recruiting graduates are field of study, the main focus of subject area/specialization, results of recruitments tests, practical experience acquired during course of study, and communication skills. But employers give the least important aspect considerations for recommendations/references from third persons and the reputation of the institute in recruiting graduates for employment. Therefore, the Ethiopian Technical University should work closely with employers in order to prepare its graduates for employment.
- The first five most important drivers for employers' highest level of satisfaction by the graduates are working with other people, Theoretical training related to the

occupation, Discipline and accuracy at work, Understanding and producing drawings, and how to work in a safe way. On the other hand, employers have the lowest level of satisfaction in the aspects of How to start a business, Theory and practice of equipment maintenance, Practical use of computers, Knowledge of the industry, and General education subjects. This indicates that practical training should be enhanced to encompass skills such as practical use of working tools, theory and practice of equipment maintenance as these are important to employers. The finding also indicates there is a need to offer additional training on some common courses like entrepreneurship, mathematics, and computer science/information technology.

- On the need for additional training of graduates, three-fourth (75%) of the respondents indicated that graduates need to learn some additional skills. Also, another 34.1% of the respondents said that graduates need serious skills upgrading to start working. There is a need to liaise with employers so as to reduce the gap between the level of training at the university level and the requirements of the employers.
- Of all the respondents in the employing organizations, 67.0% of them reported that their organizations have experienced problems finding graduates of leather & leather products technology with the skills that they need. Some of the challenges they faced are practical skill gap problem, technical and communication skills problem, lack of confidence, behavioral and attitudinal problems towards TVET. As a result, the Ethiopian Technical University should work with employers who are the consumers of its graduates. This will make the training in the university labor market-driven.

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ANNEX

Annex 1: Questionnaire for Graduates

Dear Graduate,

This is a very important piece of research which will help to improve the work of Ethiopian

Technical University (formerly known as Federal TVET Institute) in the future. We would

really appreciate your support. This is not a commercial marketing exercise.

The Ethiopian Technical University is doing this tracer study on "Manufacturing, and

Leather & Leather Products Technology Graduates" to find out what happened to you

after you completed your long-term or short-term studies in. Did you find a job or are you

still looking for a job, did your studies prepare you well for the workplace, and do you use the

knowledge and skills you have learned during your studies?

The core objective of the survey is to improve the study programmes of **Manufacturing**, and

Leather & Leather Products Technology departments and, more specifically, to revise the

curricula so it prepares graduates better for the world of work.

Your information will be treated in strict confidence. The results will be published in such a

way that identification of individual persons is excluded.

Results of this survey will be published on the website of the university but without your

identity being revealed.

On your request we will send you a PDF version of the report with the main results of the

survey.

Overview of the Questionnaire Content

Section I - Demographic Information

Section II - Employment Status

Section III - Relevance of Training

Section IV - Job Satisfaction

Section V - Relationship between Study and Employment

Section VI - Comments and Recommendations

Direction: Please encircle the code that corresponds to your answer.

SECTION I – DEMOGRAPHIC INFORMATION

50

	1. Name:					
	2. Gender:	1) Male	2) Female			
	3. Civil Status	1) Single	2) Married	3) Divorced	4) Ot	her
	4. Age (yr) 1)	Below 25 2) B	etween 25-35	3) Between 3	5-44	4) Above 44
	5. If you have	children, pleas	e state how man	y:		
	6. Region:					
	7. City:					
	8. Mobile (in a	case we need to	ask you any fui	rther questions)	·	
	9. Year of Gra	duation:	1) 2011 EC			2) 2012 EC
	10. Level of Qu	alification Atta	nined:	1) BSc	2) MS	Sc
	11. Subject stud	lied: 1) M	Ianufacturing	2) Leather	3) Ot	her,
SE	CTION II - EM	IPLOYMENT	STATUS			
1.	What is your p					
1.	1) Employe		iioiii statas.			
		ployed with em	nplovees			
	•	ployed without	- •			
	•	•	self-employed (g	go to Q 12)		
2.		- •	the status of you			
	1) Permanent	•	emporary		ıl	4) Part-time
3.	State number of	of working hou	rs per week:			
4.	Name of your	current employ	er:			
5.	Address of you	ır employer:				
	5.1 Region: _					
	5.2 City:					
	5.3 Telephone	: :				
6.	In what industr	ry sector are yo	u working in?			
	1) Manufac	turing				
	2) Construc	tion				
	3) Wholesal	le and retail tra	de			
	4) Transpor	tation and stora	nge			
	5) Education	n and Training				
	6) Other, pl	ease specify: _				
7.	Is this your firs	st job after grad	luating?	1) Yes (go to	Q 8)	2) No (go to Q 9)
8.	How long did	it take you to fi	nd your present	job?		

1) 0	-3 months
2) 4	-6 months
3) 7	-9 months
4) 1	0-12 months
5) M	More than a year
9. How lon	g did it take you to find your first job after graduating (You do not need to answer
if this is	your first job)?
1) (0-3 months
2) 4	-6 months
3) 7	-9 months
4) 1	0-12 months
5) M	fore than a year
10. How n	nuch is your salary (per month) of your present job?
1) Belov	v Birr 3500 2) Birr 3500 –5000 3) Birr 5000 – 8000 4) Birr 8000 and above
11. In wha	at way did you find your job? (Select all that apply)
1)	Newspaper /Television/Radio
2)	Internet (e.g., government websites, company websites)
3)	Relatives, friends or/and colleagues
4)	Industry Linkages during training (e.g., apprenticeship, On the Job Training)
5)	Referral/School Endorsement
6)	Social networks (e.g., Facebook, LinkedIn)
12. If you	are not employed, please select the reason (s). (Select all that apply)
	1) Further study
	2) Family concerns
	3) Opted not to look for a job
	4) Unsuccessful application
	5) Lost previous job
	6) No job opportunity in the desired field
	7) Other reasons, please specify:
SECTION	III - RELEVANCE OF TRAINING
1	

1	. Is your present work, or, in case you are unemployed, th	e last job you held since
	graduation, related to the course you followed at the Eth	iopian Technical University
	(formerly known as Federal TVET Institute)?	1) Yes (go to Q 2)
	2) No $(ao to O 3)$	

2) No (*go to Q 3*)

2. If yo	our response for the previo	ous question, Q1, is Y	ES , how relevant	was your study at
Ethi	opian Technical Universit	ty (formerly known as	Federal TVET In	stitute) to your
pres	ent work or your last job?			
1) Highly Related	2) Moderately R	elated	3) Slightly Related
3. If yo	our response for the previous	ous question, Q1, is N	O, what are the re	ason/s?
	1) I didn't find a job op	portunity related to m	y course of study	
	2) I found something no	ot related which had b	etter salary and be	enefits
	3) Health Related Reason	on		
	4) The workplace is clo	se to where I live		
	5) Others, please specif	y:		
4. Lool	king back, if you were fre	e to choose again to v	hat extent would	you probably choose
the s	same field of study?			
1) I	I will not choose that field	[
2) I	I will choose it to some ex	tent		
3) I	I will choose it to a great of	extent		
4) I	I will choose it to a very g	reat extent		
5. Whi	ch of the following areas	of study helped you p	erform in your pre	esent job? (Select all
that	apply)			
	1) Knowledge (theoreti	cal and practical rela	ted to my specializ	zation)
	2) Practical job-related	skills (for example, us	se of tools, equipm	nent and machinery)
	3) Communication skill	s (spoken and written)	
	4) ICT skills (use of con	nputers)		
	5) Problem-solving skil	ls (being able to anal	yze a problem and	I find creative
	solutions)		1. 1.1.	1
		, attendance at work,		•
	7) Entrepreneurship ski management, leading	lls (such as, market re g others)	search, business p	olanning, financial
	8) Customer service ski	lls (such as, personal	presentation, beir	ıg polite,
	understanding a cust	omer's needs and bei	ng able to meet th	ese)
6. Did	you participate in further	training (<i>university</i> , e	vening classes, sh	ort courses) since you
grad	luated? 1)	Yes (go to Q 7)	2) No (<i>go t</i>	to Q 8)
7. Plea	se describe the type of co	urse:		
8. If N	O, why not?			
	1) No relevant course a	vailable		

- 2) No need for further training
- 3) No money to pay for training
- 4) No opportunity for training

5)	Others,	please s	pecify:	

9. Would you like to attend further training courses? 1) Yes

SECTION IV - JOB SATISFACTION

1	Are you satisfied with your present job?	1 \ 37	2) No
	Are voll satisfied with vollr present ion /	1) Yes	/ 1 INC

2. To what extent are you satisfied with the following aspects on a five-point scale: 1=Not Satisfied, 2= Low Satisfaction, 3=Moderately Satisfied, 4=Highly Satisfied, 5=Very High Satisfaction.

2) No

Job Satisfaction	Satisfaction level						
Job Satisfaction			3	4	5		
2.1. Interesting work tasks	1	2	3	4	5		
2.2. Being able to work with some independence	1	2	3	4	5		
2.3. Clear and regulated work tasks	1	2	3	4	5		
2.4. Possibilities for applying what you learned when studying	1	2	3	4	5		
2.5. Job security	1	2	3	4	5		
2.6. Social status and recognition	1	2	3	4	5		
2.7. Possibilities to put your own ideas into practice	1	2	3	4	5		
2.8. Income and benefits	1	2	3	4	5		
2.9. Good social climate / work setting	1	2	3	4	5		
2.10. Good career advancement prospects	1	2	3	4	5		
2.11. Being able to coordinate/supervise work	1	2	3	4	5		

SECTION V - RELATIONSHIP BETWEEN STUDY AND EMPLOYMENT

Based on your present work, how would you rate the study conditions and provisions you experienced at Ethiopian Technical University (formerly known Federal TVET Institute)? Please respond to each factor on the five-point scale: 1=Bad, 2=Fair, 3=Good, 4=Very Good, 5=Excellent.

Study Conditions and Provisions	Rating scale						
	1 2 3 4						
1.1. Theoretical training related to the occupation	ation 1 2 3 4				5		

1.2. Practical use of computers 1 2 3 4 5 1.3. Practical use of working tools 1 2 3 4 5 1.4. Practical use of machines and equipment 1 2 3 4 5 1.5. Practical use of materials and parts 1 2 3 4 5 1.6. Theory and practice of equipment maintenance 1 2 3 4 5 1.7. Understanding and producing drawings 1 2 3 4 5 1.8. Doing measurements at work 1 2 3 4 5 1.9. Use of written instructions and working guides 1 2 3 4 5 1.10. Communication 1 2 3 4 5 1.11. Working with other people 1 2 3 4 5 1.12. Knowledge of nation	10 D : 1 C	4	_	_		_
1.4. Practical use of machines and equipment 1 2 3 4 5 1.5. Practical use of materials and parts 1 2 3 4 5 1.6. Theory and practice of equipment maintenance 1 2 3 4 5 1.7. Understanding and producing drawings 1 2 3 4 5 1.8. Doing measurements at work 1 2 3 4 5 1.9. Use of written instructions and working guides 1 2 3 4 5 1.10.Communication 1 2 3 4 5 1.11.Working with other people 1 2 3 4 5 1.12.Knowledge of national laws 1 2 3 4 5 1.13.How to work in a safe way 1 2 3 4 5 1.14.How to do high quality work 1 2 3 4 5 1.15.Discipline and accuracy at work 1 2 3 4 5 1.16.How to start a business 1 2 3 4 5	1.2. Practical use of computers	1	2	3	4	5
1.5. Practical use of materials and parts 1 2 3 4 5 1.6. Theory and practice of equipment maintenance 1 2 3 4 5 1.7. Understanding and producing drawings 1 2 3 4 5 1.8. Doing measurements at work 1 2 3 4 5 1.9. Use of written instructions and working guides 1 2 3 4 5 1.10.Communication 1 2 3 4 5 1.11.Working with other people 1 2 3 4 5 1.12.Knowledge of national laws 1 2 3 4 5 1.13.How to work in a safe way 1 2 3 4 5 1.14.How to do high quality work 1 2 3 4 5 1.15.Discipline and accuracy at work 1 2 3 4 5 1.16.How to start a business 1 2 3 4 5 1.18.Management of the institution 1 2 3 4 5 1.2	1.3. Practical use of working tools	1	2	3	4	5
1.6. Theory and practice of equipment maintenance 1 2 3 4 5 1.7. Understanding and producing drawings 1 2 3 4 5 1.8. Doing measurements at work 1 2 3 4 5 1.9. Use of written instructions and working guides 1 2 3 4 5 1.10.Communication 1 2 3 4 5 1.11.Working with other people 1 2 3 4 5 1.12.Knowledge of national laws 1 2 3 4 5 1.13.How to work in a safe way 1 2 3 4 5 1.14.How to do high quality work 1 2 3 4 5 1.15.Discipline and accuracy at work 1 2 3 4 5 1.16.How to start a business 1 2 3 4 5 1.17.General education subjects 1 2 3 4 5 1.18.Management of the institution 1 2 3 4 5 1.20.Recreati	1.4. Practical use of machines and equipment	1	2	3	4	5
1.7. Understanding and producing drawings 1 2 3 4 5 1.8. Doing measurements at work 1 2 3 4 5 1.9. Use of written instructions and working guides 1 2 3 4 5 1.10.Communication 1 2 3 4 5 1.11.Working with other people 1 2 3 4 5 1.12.Knowledge of national laws 1 2 3 4 5 1.13.How to work in a safe way 1 2 3 4 5 1.14.How to do high quality work 1 2 3 4 5 1.15.Discipline and accuracy at work 1 2 3 4 5 1.16.How to start a business 1 2 3 4 5 1.17.General education subjects 1 2 3 4 5 1.19.Standard of buildings, classrooms and workshops/labs 1 2 3 4 5 1.20.Recreational activities 1 2 3 4 5 1.21.Suppor	1.5. Practical use of materials and parts	1	2	3	4	5
1.8. Doing measurements at work 1 2 3 4 5 1.9. Use of written instructions and working guides 1 2 3 4 5 1.10.Communication 1 2 3 4 5 1.11.Working with other people 1 2 3 4 5 1.12.Knowledge of national laws 1 2 3 4 5 1.13.How to work in a safe way 1 2 3 4 5 1.14.How to do high quality work 1 2 3 4 5 1.15.Discipline and accuracy at work 1 2 3 4 5 1.16.How to start a business 1 2 3 4 5 1.17.General education subjects 1 2 3 4 5 1.19.Standard of buildings, classrooms and workshops/labs 1 2 3 4 5 1.20.Recreational activities 1 2 3 4 5 1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teacher	1.6. Theory and practice of equipment maintenance	1	2	3	4	5
1.9. Use of written instructions and working guides 1 2 3 4 5 1.10.Communication 1 2 3 4 5 1.11.Working with other people 1 2 3 4 5 1.12.Knowledge of national laws 1 2 3 4 5 1.13.How to work in a safe way 1 2 3 4 5 1.14.How to do high quality work 1 2 3 4 5 1.15.Discipline and accuracy at work 1 2 3 4 5 1.17.General education subjects 1 2 3 4 5 1.18.Management of the institution 1 2 3 4 5 1.19.Standard of buildings, classrooms and workshops/labs 1 2 3 4 5 1.20.Recreational activities 1 2 3 4 5 1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teachers 1 2 3 4 5 1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-based training 1 2 3 4 5	1.7. Understanding and producing drawings	1	2	3	4	5
1.10.Communication 1 2 3 4 5 1.11.Working with other people 1 2 3 4 5 1.12.Knowledge of national laws 1 2 3 4 5 1.13.How to work in a safe way 1 2 3 4 5 1.14.How to do high quality work 1 2 3 4 5 1.15.Discipline and accuracy at work 1 2 3 4 5 1.16.How to start a business 1 2 3 4 5 1.17.General education subjects 1 2 3 4 5 1.18.Management of the institution 1 2 3 4 5 1.19.Standard of buildings, classrooms and workshops/labs 1 2 3 4 5 1.20.Recreational activities 1 2 3 4 5 1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teachers 1 2 3 4 5 1.24.Careers advice 1	1.8. Doing measurements at work	1	2	3	4	5
1.11.Working with other people 1 2 3 4 5 1.12.Knowledge of national laws 1 2 3 4 5 1.13.How to work in a safe way 1 2 3 4 5 1.14.How to do high quality work 1 2 3 4 5 1.15.Discipline and accuracy at work 1 2 3 4 5 1.16.How to start a business 1 2 3 4 5 1.17.General education subjects 1 2 3 4 5 1.18.Management of the institution 1 2 3 4 5 1.19.Standard of buildings, classrooms and workshops/labs 1 2 3 4 5 1.20.Recreational activities 1 2 3 4 5 1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teachers 1 2 3 4 5 1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice	1.9. Use of written instructions and working guides	1	2	3	4	5
1.12.Knowledge of national laws 1 2 3 4 5 1.13.How to work in a safe way 1 2 3 4 5 1.14.How to do high quality work 1 2 3 4 5 1.15.Discipline and accuracy at work 1 2 3 4 5 1.16.How to start a business 1 2 3 4 5 1.17.General education subjects 1 2 3 4 5 1.18.Management of the institution 1 2 3 4 5 1.19.Standard of buildings, classrooms and workshops/labs 1 2 3 4 5 1.20.Recreational activities 1 2 3 4 5 1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teachers 1 2 3 4 5 1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-base	1.10.Communication	1	2	3	4	5
1.13.How to work in a safe way 1 2 3 4 5 1.14.How to do high quality work 1 2 3 4 5 1.15.Discipline and accuracy at work 1 2 3 4 5 1.16.How to start a business 1 2 3 4 5 1.17.General education subjects 1 2 3 4 5 1.18.Management of the institution 1 2 3 4 5 1.19.Standard of buildings, classrooms and workshops/labs 1 2 3 4 5 1.20.Recreational activities 1 2 3 4 5 1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teachers 1 2 3 4 5 1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-based training 1 2 3 4 5	1.11.Working with other people	1	2	3	4	5
1.14.How to do high quality work 1 2 3 4 5 1.15.Discipline and accuracy at work 1 2 3 4 5 1.16.How to start a business 1 2 3 4 5 1.17.General education subjects 1 2 3 4 5 1.18.Management of the institution 1 2 3 4 5 1.19.Standard of buildings, classrooms and workshops/labs 1 2 3 4 5 1.20.Recreational activities 1 2 3 4 5 1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teachers 1 2 3 4 5 1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-based training 1 2 3 4 5	1.12.Knowledge of national laws	1	2	3	4	5
1.15.Discipline and accuracy at work 1 2 3 4 5 1.16.How to start a business 1 2 3 4 5 1.17.General education subjects 1 2 3 4 5 1.18.Management of the institution 1 2 3 4 5 1.19.Standard of buildings, classrooms and workshops/labs 1 2 3 4 5 1.20.Recreational activities 1 2 3 4 5 1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teachers 1 2 3 4 5 1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-based training 1 2 3 4 5	1.13.How to work in a safe way	1	2	3	4	5
1.16.How to start a business 1 2 3 4 5 1.17.General education subjects 1 2 3 4 5 1.18.Management of the institution 1 2 3 4 5 1.19.Standard of buildings, classrooms and workshops/labs 1 2 3 4 5 1.20.Recreational activities 1 2 3 4 5 1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teachers 1 2 3 4 5 1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-based training 1 2 3 4 5	1.14.How to do high quality work	1	2	3	4	5
1.17.General education subjects 1 2 3 4 5 1.18.Management of the institution 1 2 3 4 5 1.19.Standard of buildings, classrooms and workshops/labs 1 2 3 4 5 1.20.Recreational activities 1 2 3 4 5 1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teachers 1 2 3 4 5 1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-based training 1 2 3 4 5	1.15.Discipline and accuracy at work	1	2	3	4	5
1.18.Management of the institution 1 2 3 4 5 1.19.Standard of buildings, classrooms and workshops/labs 1 2 3 4 5 1.20.Recreational activities 1 2 3 4 5 1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teachers 1 2 3 4 5 1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-based training 1 2 3 4 5	1.16.How to start a business	1	2	3	4	5
1.19.Standard of buildings, classrooms and workshops/labs 1 2 3 4 5 1.20.Recreational activities 1 2 3 4 5 1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teachers 1 2 3 4 5 1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-based training 1 2 3 4 5	1.17.General education subjects	1	2	3	4	5
1.20.Recreational activities 1 2 3 4 5 1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teachers 1 2 3 4 5 1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-based training 1 2 3 4 5	1.18.Management of the institution	1	2	3	4	5
1.21.Support from teachers 1 2 3 4 5 1.22.Competence of teachers 1 2 3 4 5 1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-based training 1 2 3 4 5	1.19.Standard of buildings, classrooms and workshops/labs	1	2	3	4	5
1.22.Competence of teachers 1 2 3 4 5 1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-based training 1 2 3 4 5	1.20.Recreational activities	1	2	3	4	5
1.23.Teachers' experience of industry 1 2 3 4 5 1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-based training 1 2 3 4 5	1.21.Support from teachers	1	2	3	4	5
1.24.Careers advice 1 2 3 4 5 1.25.Providing internship/industry-based training 1 2 3 4 5	1.22.Competence of teachers	1	2	3	4	5
1.25.Providing internship/industry-based training 1 2 3 4 5	1.23.Teachers' experience of industry	1	2	3	4	5
	1.24.Careers advice	1	2	3	4	5
1.26.Help in finding a job 1 2 3 4 5	1.25.Providing internship/industry-based training	1	2	3	4	5
	1.26.Help in finding a job	1	2	3	4	5

SECTION VI - COMMENTS AND RECOMMENDATIONS

1. Are there any changes you would recommend for your previous university (Ethiopian
Technical University)'s study/ programme of Manufacturing, and Leather & Leather
Products Technology?
Please specify:
2. Do you have any comments/suggestions regarding this survey?
Please specify:
Thank you for your cooperation!

Annex 2: Questionnaire for Employers

Dear Employer,

This is a very important piece of research which will help to improve the work of Ethiopian Technical University (formerly known as Federal TVET Institute) in the future. We would really appreciate your support. This is not a commercial marketing exercise.

The Ethiopian Technical University is doing this tracer study on "Manufacturing, and Leather & Leather Products Technology Graduates" and would like to find out what happened to them after they completed their studies.

Did they find a job in your company/organization, did their studies prepare them well for the workplace, and do they use the knowledge and skills they have learned during their studies? The core objectives of the survey are mainly to improve the study programmes of **Manufacturing, and Leather & Leather Products Technology** and, more specifically, to revise the curricula.

Your information will be treated in strict confidence. The results will be published in such a way that identification of individual persons is excluded. No information will be shared with government agencies or commercial organizations.

Results of this survey will be published on the website of the university but without your identity being revealed.

Thank you very much in advance for your kind support.

Yours Sincerely,

Overview of the content of the questionnaire

Section I: Demographic Information

Section II: Identification of the Company/Organization

Section III: Recruitment Procedures and Recruitment Criteria

Section IV: Comments and Recommendations

Direction: Please encircle the code that corresponds to your answer.

Section	I:	Demogra	phic	Informa	ation
	••	Domingia	PIIIC .		****

1.	Sex:	1) Male	2) Fe	male	
2.	Age (years):				
3.	Marital Status:	1) Single	2) Married	3) Divorced	4) Other
4.	Education Level	:			
	1) Diploma	or below			
	2) BSc/BA/	BEd			
	3) MSc/MA	/MEd			
	4) PhD				
5.	Which of the	options belo	w best describ	es your role/ posi	tion in the company
	organization?				
	1) Director/	Chief Execut	ive Officer		
	2) Deputy D	Director/ Exec	cutive Officer		
	3) Dean/Ass	sociate Dean			
	4) Human R	Resource Man	ager		
	5) Departme	ent/Section H	ead		
	6) Section S	Supervisor			
	7) Other (pl	ease specify)	:		
Sec	tion II: Identifica	ation of the (Company/Orga	nization	
1.	Name of company	y/ organizatio	n:		

2.	Regio	n:											
3.													
4.	1 —————————————————————————————————————												
5.	Industry sector of the organization/company?												
	1) Manufacturing												
	2) Construction												
	3) W	holesale and retail trade											
	4) Transportation and storage												
	5) E	lucation and Training											
	6) O	ther, please specify:											
Se	ction I	II: Recruitment Procedures and Selection Criteria											
1.	What	What kind of procedures does the company/organization use to recruit graduates of											
	Manufacturing, and Leather & Leather Products Technology? (Select all that apply)												
	1) Advertisements of vacancies in newspapers (such as, daily papers, special												
	periodicals)												
	2) Advertisements in the Internet												
	3) Internal advertisements of vacancies												
	4) Direct application by graduates												
	5)	Personal contacts to graduates											
	6)	Private employment agencies											
	7)	Other (please specify):											
2.	How	many graduates of Manufacturing, and Leather & Lea	ther	Pro	duct	s Te	chno	ology					
	have	you employed from Ethiopian Technical University (form	nerly	kno	wn a	ıs Fe	dera	l					
	TVET	Institute)?											
		2.1. Manufacturing:											
		2.2. Leather:											
3.	How	important in general are the following aspects	for	r th	e re	ecrui	tmen	t of					
	Manu	facturing, and Leather & Leather Products Tech	nolo	gy (Frad	uate	s ? P	lease					
	respon	nd to each factor on the five-point scale: 1=Not at al	l im	port	ant,	2=S	ome	what					
	Impo	rtant, 3=Important, 4=Very Important, 5=Extremely	Imp	orta	nt.								
	A 6	spects of recruitment	Rat	te of	Imp	orta	nce						
	A	pects of recruitment	1	2	3	4	5						

3.1. Field of study	1	2	3	4	5
3.2. Main focus of subject area/specialization	1	2	3	4	5
3.3. Grades of examinations at the TVET Institute	1	2	3	4	5
3.4. Practical experience acquired during course of study	1	2	3	4	5
3.5. Reputation of TVET Institute	1	2	3	4	5
3.6. Recommendations/references from third persons	1	2	3	4	5
3.7. Results of recruitments tests	1	2	3	4	5
3.8. Communication skills	1	2	3	4	5
3.9. Personal presentation	1	2	3	4	5
3.10. Personality and behavior	1	2	3	4	5
3.11. Candidate's own world view	1	2	3	4	5

4. How satisfied are you with the quality of training received by the **graduates of**Manufacturing, and Leather & Leather Products Technology?

- 1) Not at all satisfied
- 2) Somewhat satisfied
- 3) Satisfied
- 4) Very satisfied
- 5) Extremely satisfied

5. Do graduates of Manufacturing, and Leather & Leather Products Technology need additional training to do their work well in your company? (Select all that apply)

- 1) Normally they are fully prepared to do the work well
- 2) They need only an introductory training
- 3) They need to learn some additional skills
- 4) They need serious skills upgrading to start working
- 5) They need completely new training

6. To what extent are you satisfied with by the Manufacturing, and Leather & Leather Products Technology Graduates' demonstration of the following aspects? Please respond to each factor on the five-point scale: 1=Not at all satisfied, 2=Somewhat satisfied, 3=Satisfied, 4=Very satisfied, 5=Extremely satisfied.

Knowledge and skill aspects	Rate of satisfaction							
	1	2	3	4	5			
6.1. Theoretical training related to the occupation	1	2	3	4	5			
6.2. Practical use of computers	1	2	3	4	5			
6.3. Practical use of working tools	1	2	3	4	5			
6.4. Practical use of machines and equipment	1	2	3	4	5			
6.5. Practical use of materials and parts	1	2	3	4	5			
6.6. Theory and practice of equipment maintenance	1	2	3	4	5			
6.7. Understanding and producing drawings	1	2	3	4	5			
6.8. Doing measurements at work	1	2	3	4	5			
6.9. Use of written instructions and working guides	1	2	3	4	5			
6.10. Communication	1	2	3	4	5			
6.11. Working with other people	1	2	3	4	5			
6.12. Knowledge of the industry	1	2	3	4	5			
6.13. How to work in a safe way	1	2	3	4	5			
6.14. How to do high quality work	1	2	3	4	5			
6.15. Discipline and accuracy at work	1	2	3	4	5			
6.16. How to start a business	1	2	3	4	5			

6.17. General education subjects	1	2	3	4	5
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7. To what extent are the following skills shortages most severe in the **Graduates of Manufacturing**, and **Leather & Leather Products Technology**? 1=Not severe at all, 2=Somewhat severe, 3=Severe, 4=Very severe, 5=Extremely severe.

Skills level	Skill shortages severity						
	1	2	3	4	5		
Semi-skilled	1	2	3	4	5		
Skilled worker	1	2	3	4	5		
Technician/engineer		2	3	4	5		
Supervisory/management	1	2	3	4	5		

		Supervisory/management	1	2	3	4	5	
8.	Has your compa	any ever experienced proble	ms fi	nding	grad	uates	of M	lanufacturing, and
	Leather & Lea	ther Products Technology	with	the sk	cills tl	nat yo	u nee	ed?
		1) Yes		2) No				
9.	If your answer	is Yes for the previous ques	stion,	Secti	on II	I - Q	8, ple	ase list some of the
	problems you en	ncountered?						
Se	ection IV: Comn	nents and Recommendatio	ns					
1.	What important of	changes would you recomm	end f	or the	Ethic	pian	Tech	nical University
	(formerly known	as Federal TVET Institute)	's pro	gram	me of	fstud	y in tl	he field of

2. What comments/suggestions regarding this survey would you like to make?

Manufacturing, and Leather & Leather Products Technology?

Please specify:

Please specify:			

Thank you very much for completing this questionnaire.