
FACULTY OF ENGINEERING

DEPARTMENT OF

AGRICULTURAL MECHANIZATION AND IRRIGATION

ENGINEERING

INDUSTRIAL TRAINING REPORT CARRIED OUT AT

SUGAR CORPORATION OF UGANDA LIMITED

(SCOUL)-PLANTATION SECTION KIVUVU

BY

MUTEENYO EMMANUEL JIDRAF

BU/UP/2021/0869

FROM 12th June to 4th August

**A report submitted in partial fulfillment of the requirements for the award of
the Diploma in Agricultural Engineering.**

Email; muteenyoemmanuel @gmail.com

Telephone; 0788571067/0755235492

ABSTRACT

This industrial training report explains the development of practical and professional skills in the fields of crop agriculture and agriculture engineering carried out at Sugar Corporation of Uganda limited

Chapter one includes the introduction, background, administration structure of SCOUL and objectives of industrial training for Engineering students.

Chapter Two encapsulates the practical work done during the training all of which I participated and was able to bring to successful accomplishment.

Chapter Three includes the experiences and lessons learnt from the training.

Chapter Four includes the conclusion, recommendations and appendices

DECLARATION

I, MUTEENYO EMMANUEL JIDRAF, declare that the work here in has been compiled by my own efforts, is represented in its original form and has not been presented to any university or any other academic institution for any academic award whatsoever.

Signature.....
.....

Date.....

DEDICATION

I dedicate this write up to the almighty God for his endless favor always, to the staff at Busitema University for their immense contribution to my lifelong success and always being there for me, my brothers, my sisters, mother, **Mrs. Khatoko Sylvia for** giving me the best things in life

ACKNOWLEDGEMENT

I give thanks to the lord for He is good and His love endures forever, the fear of the lord, is the beginning of wisdom.

Special thanks goes to the administration of Busitema University for having organized this internship period, thanks so much for always bridging a gap for me to learn.

I would like to convey my sincere appreciation to the management and staff of **SCOUL** for the training opportunity granted to me and for the meticulous guidance throughout the training period. Special thanks go to my supervisor Mr. **KANTU ABDUL** for the support rendered.

APPROVAL

This is to certify that Mr. MUTEENYO EMMANUEL JIDRAF carried out industrial training at Sugar Corporation of Uganda limited (scoul) from 12th June, 2023 to 4th August, 2023 and what is reported is true and ready for submission to the department of Agricultural Mechanization and Irrigation Engineering, Busitema University Faculty of Engineering.

Training manager SCOUL

Name..... Signature.....

Official

Seal/stamp.....

Busitema University supervisor

Name..... Signature.....

Table of Contents

ABSTRACT.....	ii
DECLARATION	iii
DEDICATION	iv
ACKNOWLEDGEMENT	v
APPROVAL	vi
CHAPTER ONE	1
1.1 INTRODUCTION	1
1.1 BACKGROUND OF INDUSTRIAL TRAINING PROGRAM.	1
1.2 OBJECTIVES OF INDUSTRIAL TRAINING.....	1
1.2.1 Main Objectives	1
1.2.2 Specific objective.....	1
1.3 COMPANY PROFILE	2
1.3.1 Background	2
1.3.2 VISION	3
1.3.3 MISSION	3
1.3.4 STRUCTURE AND ORGANISATION CHART OF THE COMPANY	3
1.2.5 VALUE STATEMENTS	3
CHAPTER TWO	3
2.0 INTRODUCTION	3
2.1 LAND PREPARATION	4
2.1.1 First plough.	4
2.1.2 Second plough.....	6
2.1.3 First harrowing.....	6
2.1.4 Ridging.....	7
2.1.5 Mould dressing.....	7
2.2.0 Inter cultivation activities.....	8
2.2.1 Chiseling.	8
link connection.....	8
2.2.2 Deep tyning.....	9
2.2.3 Mechanical off and on barrying.....	9

2.3 planting	10
2.3.1 Seed harvesting	10
2.3.2 Seed selection.....	10
2.3.3 Planting in the uplands.....	11
2.3.4 Planting in the low lands.....	12
2.3.5 Planting along the slopes.....	13
2.4.0 RATOON MANAGEMENT PRACTICES.....	14
2.4.1 Factors considered before maintaining a plot	14
2.4.2 Activities carried out in ratoon management	14
2.5 WEED MANAGEMENT PRACTICES.....	16
2.5.1 Pre-plough spraying	16
2.5.2 Pre-plant spraying	16
2.5.3 Pre-emergency spraying.....	16
2.5.4 Post emergency spraying.	17
2.5.4.1 Upland post emergency spraying.....	17
2.5.4.2 low land post emergency spraying.....	17
2.5.5 Under canopy spraying	18
2.5.6 Fire break spraying	18
2.6 XAG Drone spraying	19
2.6.1 Pre-flight check for XAG spraying drone.....	19
2.6.2. Charging the drone battery.....	20
2.6.3 Mixing of the chemical	20
2.7 FERTILIZER APPLICATION	21
2.7.1 Organic fertilizers	21
2.7.2 Inorganic fertilizers	22
2.8 CANE HARVESTING	23
CHAPTER THREE	24
3.1 Experiences and Lessons Learnt from Industrial training.....	24
3.2 challenges	24
CHAPTER FOUR.	25
4.1 CONCLUSIONS.....	25
4.2 RECOMMENDATIONS.....	25

4.3 REFERENCES 26

4.4 APPENDICES 27

CHAPTER ONE

1.1 INTRODUCTION

1.1 BACKGROUND OF INDUSTRIAL TRAINING PROGRAM.

Industrial training is a program that is aimed to impart and equip students with the practical skills in their respective fields of study for a given period of time so as to compete in the job market after graduation.

1.2 OBJECTIVES OF INDUSTRIAL TRAINING

1.2.1 Main Objectives

- ✓ To provide opportunity to students to apply the principles and techniques theoretically learn into real problems solving situation.
- ✓ To provide an opportunity to students and academic staff to interact with stakeholders and potential employers to appreciate field situation that will also generate information for curricula review and improvement.
- ✓ To develop students understanding of work ethics, employment demands and opportunities
- ✓ To enhance and strengthen linkages between the university and other organizations

1.2.2 Specific objective

- ✓ To equip students with hands on skills in their respective fields of study and training.