LEARNING OUTCOME BASED VOCATIONAL CURRICULUM

JOB ROLE: Warehouse Associate

(QUALIFICATION PACK: Ref. Id. LSC/Q0101)

SECTOR: Logistics

Grade 9 and 10



PSS CENTRAL INSTITUTE OF VOCATIONAL EDUCATION
Shyamla Hills, Bhopal- 462 002, M.P., India
http://www.psscive.ac.in



Gandhiji's Talisman

I will give you a talisman. Whenever you are in doubt or when the self becomes too much with you, apply the

following test:

Recall the face of the poorest and the weakest man whom you may have seen and ask yourself if the step you contemplate is going to be of any use to him. Will he gain anything by it? Will it restore him to a control over his own life and destiny? In other words, will it lead to Swaraj for the hungry and spiritually starving millions?

Then you will find your doubts and your self melting away.

mkgamin







LEARNING OUTCOME BASED VOCATIONAL CURRICULUM

JOB ROLE: Warehouse Associate

(QUALIFICATION PACK: Ref. Id. LSC/Q0101)

SECTOR: Logistics

Grade 9 and 10



PSS CENTRAL INSTITUTE OF VOCATIONAL EDUCATION
Shyamla Hills, Bhopal- 462 002, M.P., India
http://www.psscive.ac.in

LEARNING OUTCOME BASED VOCATIONAL CURRICULUM Logistics – Warehouse Associate March, 2023

© PSSCIVE, 2023

http://www.psscive.ac.in

No part of this work may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, microfilming, recording or otherwise, without written permission from the Publisher, with the exception of any material supplied specifically for the purpose of being used by the purchaser of the work.

The views and opinions expressed in this publication are those of the contributors/ authors and do not necessarily reflect the views and policies of PSS Central Institute of Vocational Education, Bhopal. The PSSCIVE does not guarantee the accuracy of the data included in this publication and accepts no responsibility for any consequence of their use.

Published by:

Joint Director PSS Central Institute of Vocational Education, NCERT, Shyamla Hills, Bhopal



PATRON

Prof. Dinesh Prasad Saklani, Ph. D Director, National Council of Educational Research and Training (NCERT), New Delhi

Dr. Deepak Paliwal, Ph. D Joint Director PSS Central Institute of Vocational Education, Bhopal

COURSE COORDINATOR

Dr. Punnam Veeraiah, Ph. D Professor, Department of Business and Commerce PSSCIVE, Bhopal

FOREWORD

The Pandit Sunderlal Sharma Central Institute of Vocational Education (PSSCIVE) a constituent of the National Council of Educational Research and Training (NCERT) is spearheading the efforts of developing learning outcome-based curricula and courseware aimed at integrating both vocational and general qualifications to open pathways of career progression for students. The curriculum has been developed for the vocational education program introduced under the Centrally Sponsored Scheme of Samagra Shiksha of the Ministry of Education (erstwhile, Ministry of Human Resource Development) and is aligned to the National Skills Qualifications Framework (NSQF). The curricula for vocational courses are being developed under the project approved by the Project Approval Board (PAB) of 'Samagra Shiksha' which is an overarching program for the school education sector extending from pre-school to Grade 12. The main purpose of the learning outcome-based curricula is to bring about improvement in the teaching-learning process and working competencies through learning outcomes embedded in the vocational subject.

It is a matter of great pleasure to introduce this learning outcome-based curriculum as part of the vocational training packages for the job role of **Warehouse Associate**. The curriculum has been developed for the secondary students of Grade 9 and 10 and is aligned to the National Occupation Standards (NOSs) of a job role identified and approved under the National Skill Qualifications Framework (NSQF).

The curriculum aims to provide children with employability and vocational skills to support occupational mobility and lifelong learning. It will help students to acquire specific occupational skills that meet employers' immediate needs. The teaching process is to be performed through interactive sessions in classrooms, practical activities in laboratories and workshops, projects, field visits, and professional experiences.

The curriculum has been developed and reviewed by a group of experts and their contributions are greatly acknowledged. The utility of the curriculum will be adjudged by the qualitative improvement that it brings about in teaching-learning. The feedback and suggestions on the content by the teachers and other stakeholders will be of immense value to us in bringing about further improvement in this document.

Dinesh Prasad Saklani

Director

National Council of Education Research and Training

PREFACE

India today stands poised at a very exciting juncture in its saga. The potential for achieving inclusive growth is immense and the possibilities are equally exciting. The world is looking at us to deliver sustainable growth and progress. To meet the growing expectations, India will largely depend upon its young workforce. The much-discussed demographic dividend will bring sustaining benefits only if this young workforce is skilled and its potential is channelized in the right direction.

In order to fulfill the growing aspirations of our youth and the demand for a skilled human resource, the Ministry of Education, (MoE), Government of India introduced the revised Centrally Sponsored Scheme of Vocationalisation of School Education under Samagra Shiksha that aims to provide for the diversification of educational opportunities so as to enhance individual employability, reduce the mismatch between demand and supply of skilled manpower and provide an alternative for those pursuing higher education. For spearheading the scheme, the PSS Central Institute of Vocational Education (PSSCIVE) was entrusted with the responsibility to develop learning outcome-based curricula, student workbooks, teacher handbooks, and e-learning materials for job roles in various sectors, with growth potential for employment.

The PSSCIVE firmly believes that the vocationalisation of education in the nation needs to be established on a strong footing of philosophical, cultural, and sociological traditions and it should aptly address the needs and aspirations of the students besides meeting the skill demands of the industry. The curriculum, therefore, aims at developing the desired professional, managerial, and communication skills to fulfill the needs of society and the world of work. In order to honor the commitment to the nation, the PSSCIVE has initiated the work on developing learning outcome-based curricula with the involvement of faculty members and leading experts in respective fields. It is being done through the concerted efforts of leading academicians, professionals, policymakers, partner institutions, Vocational Education and Training experts, industry representatives, and teachers. The expert group through a series of consultations, working group meetings, and the use of reference materials develops the national curriculum.

We extend our gratitude to all the contributors for selflessly sharing their precious knowledge, acclaimed expertise, and valuable time and positively responding to our request for the development of the curriculum. We are grateful to MoE and NCERT for the financial support and cooperation in realizing the objective of providing learning outcome-based modular curricula and courseware to the States and other stakeholders under the PAB (Project Approval Board) approved project of Samagra Shiksha of MoE

Finally, for transforming the proposed curriculum design into a vibrant reality of implementation, all the institutions involved in the delivery system shall have to come together with a firm commitment and they should secure optimal community support. The success of this curriculum depends upon its effective implementation and it is expected that the managers of vocational education and training system, including subject teachers will make efforts to create better facilities, develop linkages with the world of work and foster a conducive environment as per the content of the curriculum document.

The PSSCIVE, Bhopal remains committed in bringing about reforms in the vocational education and training system through the learner-centric curricula and courseware. We hope that this document will prove useful in turning out more competent Indian workforce for the 21st century.

Deepak Paliwal

Joint Director

PSS Central Institute of Vocational Education

ACKNOWLEDGEMENTS

On behalf of the team at the PSS Central Institute of Vocational Education (PSSCIVE) we are grateful to the members of the Project Approval Board (PAB) of Samagra Shiksha and the officials of the Ministry of Education, Government of India for the financial support to the project for the development of curricula.

We are grateful to the Director of NCERT for his support and guidance. We also acknowledge the contributions of our colleagues at the Technical Support Group of MoE, and National Council for Vocational Education and Training (NCVET), the National Skill Development Corporation (NSDC), and Logistics Skill Council (LSC) for their academic support and cooperation in the development of Qualification file and curriculum.

We are thankful to the course coordinator Dr. Punnam Veeraiah Professor and Head of Department of Business and Commerce (DBC), Deeksha Chaurasia, Assistant Professor, Department of Business and Commerce (DBC) and the experts for their untiring efforts and contributions to the development of this learning outcome-based curriculum. The contribution made by Dr. Gayatri H, Head -Skilling in Schools & Academia Linkages, Logistics Sector Skill Council(LSC), in the development of the curriculum for domain and non-domain skills is duly acknowledged. The contributions made by Dr. Vinay Swarup Mehrotra, Professor and Head, Curriculum Development and Evaluation Centre (CDEC) in the development of the curriculum the employability skills are duly acknowledged.

We acknowledge the assistance provided by Sunita Koli in typing and composing of the material.

PSSCIVE Team

CONTENTS

| SI. No. | | | Title | Page No. |
|------------|----------------------|-------------------|---|----------|
| | Foreword | | | (i) |
| | Preface | | | (ii) |
| | Acknowledgen | | | (iv) |
| 1. | Course Overview | | | 1 |
| 2. | Scheme of Unit | | | 2 |
| 3. | Teaching/Traini | | | 4 |
| 4. | Assessment and | d Certitication | | 4 |
| 5. | Unit Content | David A | GRADE 9 | |
| | | Part A | Employability Skills | 7 |
| | | | Unit 1: Communication Skills - | |
| | | | Unit 2: Self-management Skills -I | 10 |
| | | | Unit 3: Information and Communication Technology Skills - I | 11 |
| | | | Unit 4: Entrepreneurial Skills - I | 13 |
| | | | Unit 5: Green Skills - I | 15 |
| | | Part B | Vocational Skills | |
| | | | Unit 1: Introduction to Warehousing | 16 |
| | | | Unit 2: Picking, Packing, Kitting, Labelling and Binning | 17 |
| | | | Unit 3: Loading and Unloading of Goods | 20 |
| | | | Unit 4: Health, Safety and Security | 21 |
| | | | GRADE 10 | |
| | | Part A | Employability Skills | |
| | | | Unit 1: Communication Skills - II | 24 |
| | | | Unit 2: Self-management Skills - II | 26 |
| | | | Unit 3: Information and Communication Technology Skills - II | 27 |
| | | | Unit 4: Entrepreneurial Skills - II | 28 |
| | | | Unit 5: Green Skills - II | 29 |
| | | Part B | Vocational Skills | |
| | | | Unit 1: Handling of Perishable Goods | 30 |
| | | | Unit 2: Handling of Fast-Moving Consumer Goods | 32 |
| | | | | 35 |
| | | | Unit 3: Handling of Automotive Goods | 36 |
| • | On a supil alliant 5 | Fig. 1.41 V field | Unit 4: Integrity and Ethics | |
| 6. | Organisation of | | orials | 38 |
| 7. 8. | List of Equipmer | | eriais ner's Qualification and Guidelines | 39 42 |
| 9. | List of Contribut | | iei 3 Qualification and Guidelines | 42 |

1. COURSE OVERVIEW

COURSE TITLE: Logistics - Warehouse Associate

Warehouses are vital components of the distribution logistic and have a significant role in the supply chain at national and international level. Warehousing is often confused with 'storage' but it encompasses sorting, packaging, labelling, safety/quarantine treatments (pest control, fumigation, etc.) also, along with safe storage of goods. For becoming a successful associate, the understanding and skills in warehousing are necessary. Logistics is a key area that can help companies gain a significant competitive advantage.

Storage of goods is as important as the manufacturing, marketing and transportation of goods. Storage involves receipt, identification, verification, sorting, putting away and retrieval for issue and even maintenance of goods. Thus, warehousing is a combination of number of activities performed in accordance with each other.

Storage is an essential activity for many business enterprises. Goods are stored to avoid sudden shortage. In order to avoid the situation such as price rise or sudden surge in demand, warehousing of goods is a good scheme. Raw material also needs to be stored so as to ensure uninterrupted supplies during a production cycle.

Warehouse work is full of challenges, none of which are going away. But the jobs of the future will continue to evolve into more complex work that will improve both output and productivity. Future warehouse jobs will be a mix of complex tasks assisted by technology, existing roles supplemented by technology, and new jobs that will help with output and production by providing workers with new skills and finding new ways to help the business. The warehouse of the future is not simply a dark cavern full of machines. It will be a lively place with workers using the knowledge and skills they learn from their companies' training programs to ensure that any technology added to the workflow is working well and serving everyone's needs.

After completion of this course the learner would be able to work as Warehouse Associate to perform picking, packaging, labelling, kitting and binning activities at the warehouse. He/she is responsible for execute safe loading and unloading of goods at the warehouse. Additional responsibilities could at times may include work place integrity, ethical and regulatory practices and to manage workplace for safe and healthy work environment by following and ensuring compliance to regulatory and safety norms. This job requires working well with his/her team and achieving joint goals. He/she must be able to prioritize and execute tasks within scheduled time limits. He/she should be able to maintain high concentration levels throughout his/her shift.

COURSE OUTCOMES: On completion of the course, students should be able to:

- Apply effective oral and written communication skills to interact with people and customers;
- Identify the principal components of a computer system;
- > Demonstrate the basic skills of using computer;
- Demonstrate self-management skills;
- > Demonstrate the ability to provide a self-analysis in context of entrepreneurial skills and abilities;
- Demonstrate the knowledge of the importance of green skills in meeting the challenges of sustainable development and environment protection.
- Perform picking, packaging, labelling, kitting and binning activities at the warehouse
- Execute safe loading and unloading of goods at the warehouse

- Comply to work place integrity, ethical and regulatory practices
- Manage workplace for safe and healthy work environment by following and ensuring compliance to regulatory and safety norms
- ➤ Demonstrate safe segregation, grading, storage, temperature control, and movement of goods in a cold storage warehouse for perishable goods
- Execute goods sorting, storage, picking, inventory counting and movement of goods in a FMCG warehouse
- Perform safe storage, packaging, palletisation and process improvement activities in an automotive warehouse
- Perform cargo handling, volume/weight measurement, pest control, spillage control and equipment operations in a dry bulk warehouse

COURSE REQUIREMENTS: The learner should have the basic knowledge of Warehouse and Logistics.

COURSE LEVEL: This is a beginner level course. On completion of this course, a student can take up an Intermediate level course for a job role in warehouse and storage operations such as Transport Associate in Grade XI and Grade XII.

COURSE DURATION: 400 Hrs.

Grade 9 : 200 Hrs. Grade 10 : 200 Hrs.

Total : 400 Hrs.

2. SCHEME OF UNITS

This course is a planned sequence of instructions consisting of Units meant for developing employability and vocational competencies of students of Grade 9 and 10 opting for vocational subject along with general education subjects. The unit-wise distribution of hours and marks for Grade 9 is as follows:

| | GRADE 9 | | |
|--------|---|--|--|
| Units | | No. of Hours for Theory and Practical 200 | Max. Marks for Theory and Practical 100 |
| Part A | Employability Skills | | |
| | Unit 1: Communication Skills -I | 20 | |
| | Unit 2: Self-management Skills -I | 10 | |
| | Unit 3: Information and Communication Technology Skills - I | 20 | 10 |
| | Unit 4: Entrepreneurial Skills - I | 15 | |
| | Unit 5: Green Skills - I | 10 | |
| | | 75 | 10 |
| Part B | Vocational Skills | | |
| | Unit 1: Introduction to Warehousing | 10 | |
| | Unit 2: Picking, Packing, Kitting, Labelling and Binning | 35 | 30 |
| | Unit 3: Loading and Unloading of Goods | 30 | |

| | Unit 4: Health, Safety And Security | 20 | | |
|--------|--|-----|-----|--|
| | | 95 | 30 | |
| Part C | Practical Work | | | |
| | Practical Examination | 06 | 15 | |
| | Written Test | 01 | 10 | |
| | Viva Voce | 03 | 10 | |
| | | 10 | 35 | |
| Part D | Project Work/Field Visit | | | |
| | Practical File/Student Portfolio | 10 | 10 | |
| | Viva Voce | 05 | 05 | |
| | | 15 | 15 | |
| Part E | Part E Continuous and Comprehensive Evaluation (CCE) | | | |
| | | 05 | 10 | |
| | Total | 200 | 100 | |

The unit-wise distribution of hours and marks for Grade 10 is as follows:

| | GRADE 10 | | |
|--------|---|--|--|
| Units | | No. of Hours for Theory and Practical 200 | Max. Marks for Theory and Practical 100 |
| Part A | Employability Skills | | |
| | Unit 1: Communication Skills - II | 20 | |
| | Unit 2: Self-management Skills - II | 10 | |
| | Unit 3: Information and Communication Technology Skills - II | 20 | 10 |
| | Unit 4: Entrepreneurial Skills - II | 15 | |
| | Unit 5: Green Skills - II | 10 | |
| | | 75 | 10 |
| Part B | Vocational Skills | | |
| | Unit 1: Handling of Perishable Goods | 27 | |
| | Unit 2: Handling of Fast-Moving Consumer Goods | 27 | 00 |
| | Unit 3: Handling of Automotive Goods | 27 | 30 |
| | Unit 4: Integrity And Ethics | 14 | |
| | | 95 | 30 |
| Part C | Practical Work | | |
| | Practical Examination | 06 | 15 |
| | Written Test | 01 | 10 |
| | Viva Voce | 03 | 10 |
| | | 10 | 35 |
| Part D | Project Work/Field Visit | 10 | 10 |
| | Practical File/Student Portfolio | 10 | 10 |
| | Viva Voce | 05 | 05 |
| DI.E | Configuration of Community 5 1 1 | 15 | 15 |
| Part E | Continuous and Comprehensive Evaluation | 05 | 10 |
| | Total | 200 | 100 |

3. TEACHING/TRAINING ACTIVITIES

The teaching and training activities have to be conducted in classroom, laboratory/ workshops and field visits. Students should be taken to field visits for interaction with experts and to expose them to the various tools, equipment, materials, procedures and operations in the workplace. Special emphasis should be laid on the occupational safety, health and hygiene during the training and field visits.

CLASSROOM ACTIVITIES

Classroom activities are an integral part of this course and interactive lecture sessions, followed by discussions should be conducted by trained vocational teachers. Vocational teachers should make effective use of a variety of instructional or teaching aids, such as audio-video materials, colour slides, charts, diagrams, models, exhibits, hand-outs, online teaching materials, etc. to transmit knowledge and impart training to the students.

PRACTICAL WORK IN LABORATORY/WORKSHOP

Practical work may include but not limited to hands-on-training, simulated training, role play, case-based studies, exercises, etc. Equipment and supplies should be provided to enhance hands-on learning experience of students. Only trained personnel should teach specialized techniques. A training plan that reflects tools, equipment, materials, skills and activities to be performed by the students should be submitted by the vocational teacher to the Head of the Institution.

FIELD VISITS/ EDUCATIONAL TOUR

In field visits, children will go outside the classroom to obtain specific information from experts or to make observations of the activities. A checklist of observations to be made by the students during the field visits should be developed by the Vocational Teachers for systematic collection of information by the students on the various aspects. Principals and Teachers should identify the different opportunities for field visits within a short distance from the school and make necessary arrangements for the visits. At least three field visits should be conducted in a year.

4. ASSESSMENT AND CERTIFICATION

Upon successful completion of the course by the candidate, the Central/ State Examination Board for Secondary Education and the respective Sector Skill Council will certify the competencies.

The National Skills Qualifications Framework (NSQF) is based on outcomes referenced to the National Occupation Standards (NOSs), rather than inputs. The NSQF level descriptors, which are the learning outcomes for each level, include the process, professional knowledge, professional skills, core skills and responsibility. The assessment is to be undertaken to verify that individuals have the knowledge and skills needed to perform a particular job and that the learning programme undertaken has delivered education at a given standard. It should be closely linked to certification so that the individual and the employer could come to know the competencies acquired through the vocational subject or course. The assessment should be reliable, valid, flexible, convenient, cost effective and above all it should be fair and transparent. Standardized assessment tools should be used for assessment of knowledge of students. Necessary arrangements should be made for using technology in assessment of students.

KNOWLEDGE ASSESSMENT (THEORY)

Knowledge Assessment should include two components: one comprising of internal assessment and second an external examination, including theory examination to be conducted by the Board. The assessment tools shall contain components for testing the knowledge and application of knowledge. The knowledge test can be objective paper-based test or short structured questions based on the content of the curriculum.

WRITTEN TEST

It allows candidates to demonstrate that they have the knowledge and understanding of a given topic. Theory question paper for the vocational subject should be prepared by the subject experts comprising group of experts of academicians, experts from existing vocational subject experts/teachers, subject experts from university/colleges or industry. The respective Sector Skill Council should be consulted by the Central/State Board for preparing the panel of experts for question paper setting and conducting the examinations.

The blue print for the question paper may be as follows:

Duration: 3 Hrs. Max. Mark: 30

| | | N | o. of Question | าร | |
|--------|--|-------------------------------------|------------------------------|-----------------------------|-------|
| SI.No. | Typology of Question | Very Short Answer (1 mark) | Short Answer (2 Marks) | Long Answer (3 Marks) | Marks |
| 1. | Remembering – (Knowledge based simple recall questions, to know specific facts, terms, concepts, principles, or theories; identify, define or recite, information) | 2 | 1 | 2 | 10 |
| 2. | Understanding – (Comprehension – to be familiar with meaning and to understand conceptually, interpret, compare, contrast, explain, paraphrase, or interpret information) | 1 | 2 | 2 | 11 |
| 3. | Application – (Use abstract information in concrete situation, to apply knowledge to new situations: Use given content to interpret a situation, private an example, or solve a problem) | 0 | 1 | 1 | 05 |
| 4. | High Order Thinking Skills – (Analysis & Synthesis – Classify, compare, contrast, or differentiate between different pieces of information; Organize and/ or integrate unique pieces of information from a variety of sources) | 0 | 1 | 0 | 02 |
| 5. | Evaluation – (Appraise, judge, | 0 | 1 | 0 | 02 |

| Total | 3x1=3 | 6x2=12 | 5x3=15 | 30 (14 Questions) |
|--|-------|--------|--------|-------------------------|
| and/or justify the value or worth of a decision or outcome, or to predict outcomes based on values) | | | | |

SKILL ASSESSMENT (PRACTICAL)

Assessment of skills by the students should be done by the assessors/examiners on the basis of practical demonstration of skills by the candidate, using a competency checklist. The competency checklist should be developed as per the National Occupation Standards (NOSs) given in the Qualification Pack for the Job Role to bring about necessary consistency in the quality of assessment across different sectors and Institutions. The student has to demonstrate competency against the performance criteria defined in the National Occupation Standards and the assessment will indicate that they are 'competent', or are 'not yet competent'. The assessors assessing the skills of the students should possess a current experience in the industry and should have undergone an effective training in assessment principles and practices. The Sector Skill Councils should ensure that the assessors are provided with the training on the assessment of competencies.

Practical examination allows candidates to demonstrate that they have the knowledge and understanding of performing a task. This will include hands-on practical exam and viva voce. For practical, there should be a team of two evaluators – the subject teacher and the expert from the relevant industry certified by the Board or concerned Sector Skill Council. The same team of examiners will conduct the viva voce.

Project Work (individual or group project) is a great way to assess the practical skills on a certain time period or timeline. Project work should be given on the basis of the capability of the individual to perform the tasks or activities involved in the project. Projects should be discussed in the class and the teacher should periodically monitor the progress of the project and provide feedback for improvement and innovation. Field visits should be organised as part of the project work. Field visits can be followed by a small-group work/project work. When the class returns from the field visit, each group might be asked to use the information that they have gathered to prepare presentations or reports of their observations. Project work should be assessed on the basis of practical file or student portfolio.

Student Portfolio is a compilation of documents that supports the candidate's claim of competence. Documents may include reports, articles and photos of products prepared by students in relation to the unit of competency.

Viva voce allows candidates to demonstrate communication skills and content knowledge. Audio or video recording can be done at the time of viva voce. The number of external examiners would be decided as per the existing norms of the Board and these norms should be suitably adopted/adapted as per the specific requirements of the vocational subject. Viva voce should also be conducted to obtain feedback on the student's experiences and learning during the project work/field visits.

5. UNIT CONTENTS

GRADE 9

Part A: Employability Skills

| S.No. | Units | Duration |
|-------|---|----------|
| | | (hrs) |
| 1. | Communication Skills – I | 20 |
| 2. | Self-management Skills – I | 10 |
| 3. | Information and Communication Technology Skills-I | 20 |
| 4. | Entrepreneurship Skills – I | 15 |
| 5. | Green Skills – I | 10 |
| | Total | 75 |

| UNIT 1: COMMUNICATION SKILLS – I | | | | | |
|---|---|---|----------|--|--|
| Learning Outcomes | Theory | Practical (12 | Duration | | |
| Learning Oblicomes | (08 hrs) | hrs) | (20 hrs) | | |
| Demonstrate the knowledge of importance, elements and perspectives in communication | Introduction to communication process Importance of communication Elements of communication Perspectives in communication Effective communication | Role play on the communication process Group discussion on the importance of communication and factors affecting perspectives in communication Charts preparation on elements of communication Asking students to write statements exemplify the use of the 7Cs (i.e. Clear, Concise, Concrete, Correct, Coherent, Courteous and Complete) for effective communication | 02 | | |
| Demonstrate the knowledge of verbal communication | Verbal communication Types of verbal communication Advantages and disadvantages of verbal communication | Role play of a phone conversation Chart preparation on types of verbal communication | 02 | | |

| | 4 Public as a skip = | 2 Cround discussion | |
|--|---|---|----|
| | 4. Public speaking | 3. Group discussion on advantages and disadvantages of verbal communication 4. Delivering a speech and practicing public speaking by using 3P's | |
| 3. Demonstrate the knowledge of non-verbal communication | Non-verbal communication Importance of nonverbal communication Types of non-verbal communication Visual communication | Role play on non-verbal communication Group discussion and demonstration of Do's and Don'ts to avoid body language mistakes Group discussion on three methods of communication | 02 |
| 4. Demonstrate the knowledge of basic writing skills | Writing skills: Parts of speech Using capitals Punctuation Basic parts of speech | 1. Reading paragraphs and sentences and identifying parts of speech 2. Constructing and writing sentences by using parts of speech 3. Identifying nouns by guessing the name, place, animal, and thing | 02 |
| 5. Describe the parts and types of sentences | Writing skills: Sentences Parts of a sentence Types of objects Types of sentences – Active and Passive Types of sentences, according to their purpose Paragraphs | 1. Framing and writing sentences using direct and indirect objects 2. Writing a paragraph using active and passive voice 3. Writing different types of sentences (i.e., declarative, exclamatory, interrogative and imperative) | 02 |

| 7. Demonstrate how to greet and introductions 2. Greetings 3. Types of greetings 4. Introducing yourself and others 8. Answer questions that others ask about you 9. Asking questions according to a situation 9. Asking questions 1. Asking questions questions 3. Method for asking questions questions 4. Introducting yourself and others 1. Talking about self 2. Filling a form 1. Practicing introducing yourself and discussion on how to greet different people. 1. Practicing introducing yourself and 2. Practicing filling of forms 3. Role-play on Self Introduction 1. Framing and writing questions (using Who, Where, When, What, Why and How) 2. Framing and writing questions (based on | 02 |
|--|----|
| that others ask about you 2. Filling a form introducing yourself and 2. Practicing filling of forms 3. Role-play on Self Introduction 9. Asking questions according to a situation 1. Asking questions 2. Need for asking questions (using who, Where, When, What, Why and How) 2. Framing and writing questions | |
| according to a situation 2. Need for asking questions questions 3. Method for asking questions questions 4. Need for asking questions questions 4. Who, 4. Where, When, 4. What, Why and 4. How) 4. Framing questions 4. Framing questions | 02 |
| purpose of the question) 3. Discussing and guessing the personality using framed questions | 02 |
| 10. Use the correct question words to ask open-ended and close-ended questions 1. Framing and writing open-ended and close-ended questions 2. Types of questions 3. Framing questions 4. Types of questions 5. Total 1. Framing and writing open-ended and close-ended questions 6. Total | 02 |

| UNIT 2: SELF-MANAGEMENT SKILLS – I | | | | | |
|--|---|---|----------------------|--|--|
| Learning Outcome | Theory (07 hrs) | Practical (03 hrs) | Duration (10 hrs) | | |
| Describe the meaning and importance of self-management | Introduction to self-management and its components Self-awareness Self-confidence Self-motivation Positive thinking Self-control Problem solving Personal hygiene and grooming Team work Time management Goal setting | Group discussion on self-management skills Performing activities to know how much aware are you about yourself. Chart preparation on components of self-management | 01 | | |
| 2. Identifying strength and weakness analysis | Identifying strength and weakness Knowing yourself Strength and Weakness analysis Difference between interests and abilities | Group discussion on aim and goal in life Perform a strength and weakness analysis Group discussion on interests and abilities | 01 | | |
| 3. Build self- confidence | Self-confidence Qualities of self-confident people Building self-confidence | Role play on building self-confidence Performing activities on building confidence through positive words | 02 | | |
| 4. Building the concept on positive thinking | Positive thinking Positive thinking and its importance How to keep your thinking positive? | Story-telling Role-play on following the class rules Practicing saying positive words Making a list of steps involved in self-reflection) on how you will follow positive attitude | 02 | | |

| | practices 5. Home activity on helping others, community service and social work | |
|---|---|----|
| 5. Describe the concept and aspects of personal hygiene | Personal hygiene Three steps of personal hygiene Care Wash Avoid Role-play on following personal hygiene steps Discussion and follow up on personal hygiene Essential steps of handwashing | 02 |
| 6. Follow the guidelines for dressing and personal grooming | Grooming Grooming and its importance Guidelines for dressing and grooming - clothes, hair, face Role play on dressing and grooming Standards Self-reflection on dressing and grooming well | 02 |
| Total | , | 10 |

| UNIT 3: INFORMATION AND COMMUNICATION TECHNOLOGY SKILLS – I | | | |
|--|---|---------------------------|--|
| Learning Outcome | Theory Practical | Duration | |
| | (06 hrs) (14 hrs) | (20 hrs) | |
| Explain the role of Information and | Introduction to Information and Communication on past, processing the communication and future 1. Introduction to Information on past, processing the communication and future | resent, | |
| Communication Technology (ICT) in day-to- day life and the workplace | 2. ICT at workplace 3. ICT at home 2. Preparation posters applications ICT | on | |
| 2. Differentiate between the ICT tools and use of mobile apps | ICT tools smartphones and tablets I Smartphones Tablets TV and Radio Application or apps Performing activities to familiar mobile devi | with 02 | |
| 3. Differentiate between smartphones and tablets | ICT tools -smartphone and tablets II Mobile device layout Basic features of a mobile device Home screen of mobile device Basic gestures used | th the vice – 02 and s of | |

| 4. Describe the | 1. Parts of a computer and | 1. Chart | |
|---------------------|---|----------------------|----|
| parts of | peripherals | preparation on | |
| computer and | Parts of a computer | components of a | |
| the computer | 3. Input devices | computer | |
| peripherals | 4. Output devices | 2. Group activity on | |
| ропрпогав | 5. Peripherals devices and | connecting | |
| | their functions | devices to a | |
| | 6. Central Processing Unit | computer | 02 |
| | (CPU) | | 02 |
| | 7. Understanding Random | | |
| | Access Memory (RAM) | | |
| | and Read Only Memory | | |
| | (ROM) | | |
| | 8. Motherboard | | |
| | 9. Ports and connections | | |
| 5. Demonstrate | 1. Basic computer | 1. Group activity on | |
| basic computer | operations | use of computer | |
| operations | 2. Computer hardware and | 2. Group practice | |
| | software | on using the | |
| | 3. Starting a computer | keyboard | 02 |
| | 4. Log in and log out | | |
| | 5. Shutting down computer | | |
| | 6. Using the keyboard | | |
| | 7. Using a mouse | | |
| 6. Perform basic | 1. Performing Basic file | 1. Group practice | |
| file computer | operations | on creating a file. | |
| operations | 2. Need to perform basic file | | 00 |
| | operations. | | 02 |
| | 3. Files and folders -creating | | |
| | a file and using text editor Ubuntu | | |
| 7. Demonstrate | 1. Communication and | 1. Group discussion | |
| the knowledge | Networking -Basics of | on the uses of the | |
| of internet and | Internet | internet | |
| networking | 2. Use of the Internet | | 00 |
| | 3. Connecting to the Internet | | 02 |
| | Types of connection | | |
| | Bandwidth | | |
| | Internet browser | | |
| 8. Perform internet | 1. Communication and | 1. Group practice | |
| browsing | Networking – Internet | on web browsing | |
| | Browsing | | 02 |
| | 2. World Wide Web | | UZ |
| | 3. Web page | | |
| | 4. Web browsers | | |

| 9. Apply the knowledge of communication networking | Communication and Networking – Introductions to E-Mail How does the E-mail work Email Id or address Advantages of E-mail Group discussion on using E-mail and its advantages | 01 |
|--|--|----|
| 10. Create an Email account | Communication and Networking - Creating an E-mail account Creating an E-mail account Steps to open an E-mail account on Gmail | 01 |
| 11. Write an Email | Communication and Networking – Writing an Email Writing an E-mail Attaching a file to an Email Managing folders Group practice on writing an email with attachments | 01 |
| 12. Reply an Email | Communication and Networking – Receiving and Replying to an E-mail Receiving Email Replying to an Email Forwarding Email Deleting Email | 01 |
| Total | | 20 |

| UNIT 4: ENTREPRENEURSHIP SKILLS – I | | | |
|--|--|---|----------------------|
| Learning Outcome | Theory (06 hrs) | Practical (09 hrs) | Duration (15 hrs) |
| Describe the concept of Entrepreneurshi p skills | What is Entrepreneurship? Entrepreneurship Enterprise | Group activity on guessing the Entrepreneur | 04 |
| 2. Describe the role of entrepreneurshi p | Role of Entrepreneurship Economic development Social development Improved standard of living Optimal use of resources More benefits at lower prices - products and services at competitive prices | Group discussion on "A world without Entrepreneurs" Role-play on roles of entrepreneurship | 03 |

| 3. Describe the | 1. Qualities of a successful | 1. Role-play on | |
|----------------------|--|----------------------|----|
| qualities of a | entrepreneur | appearing for an | |
| successful | 2. Patience | interview | |
| entrepreneur | 3. Positivity | 2. Group activity on | 00 |
| | 4. Hardworking | interactions with | 02 |
| | 5. Confidence | entrepreneurs | |
| | 6. Open to trial and error | | |
| | 7. Creativity and innovation | | |
| 4. State the | 1. Distinguishing | 1. Group activity on | |
| characteristics | characteristics of | identifying | |
| of | entrepreneurship and | characteristics of | |
| entrepreneurshi | wage employment | enterprise | |
| р | 2. Characteristics of | 2. Discussion on | 03 |
| | entrepreneurship | advantages of | |
| | 3. Wage employment | entrepreneurship | |
| | 4. Benefits of | over wage | |
| | entrepreneurship | employment | |
| 5. Identify the type | Types of business activities | 1. Group activity on | |
| of business | 2. Product business | identifying | |
| activity | 3. Service business | different types of | 01 |
| | 4. Hybrid business | products and | |
| | | services | |
| 6. Differentiate | 1. Product, Service, and | 1. Poster making on | |
| between the | Hybrid Businesses | business activities | |
| product, | 2. Types of product-based | around us | 01 |
| service, and | business | | |
| hybrid | 3. Manufacturing businesses | | |
| businesses | 4. Trade businesses | | |
| 7. Describe the | 1. Entrepreneurship | 1. Group activity on | |
| entrepreneurshi | Development Process | Make-and-Sell | |
| p development | 2. Steps of starting a business | business | |
| process | Idea generation | | |
| | Getting money and | | 01 |
| | material | | |
| | Understanding customer | | |
| | needs | | |
| | Improving product/ son/ico | | |
| Total | service | | 15 |
| IVIAI | | | 13 |

| UNIT 5: GREEN SKILLS – I | | | |
|--|--|---|----------------------|
| Learning Outcome | Theory (07 hrs) | Practical (03 hrs) | Duration (10 hrs) |
| Demonstrate the knowledge of society and | Society and Environment Natural resources Renewable and Non- | Group activity on listing the factors influencing the | 05 |

| environment | renewable resources | environment | |
|-----------------------|---|-------------------------------------|----|
| OHVII OHII II OHII | 4. Types of pollutions | 2. Group activity on | |
| | 5. Climate change | listing the steps | |
| | 6. Harmful radiation | one can take to | |
| | 7. Natural disaster | save the | |
| | | environment | |
| | 8. Saving the environment: What can you do? | | |
| | 9. Reduce, reuse and recycle | | |
| | 10. Actions for saving the environment | | |
| 2. Describe the | 1. Conserving natural | 1. Group discussion | |
| meaning and | resources | on various ways of | |
| importance of | 2. Soil conservation | conserving natural | |
| conserving natural | 3. Water conservation | resources | 02 |
| resources | 4. Energy conservation | | |
| | 5. Food conservation | | |
| | 6. Forest conservation | | |
| 3. Describe the | 1. Sustainable Development | 1. Group discussion | |
| meaning and | and Green Economy | on importance of | |
| scope of sustainable | Sustainable Development | green skills 2. Poster making on | |
| development | 3. Sustainable Development | importance of | |
| and green | 4. Goals (SDGs) | green economy | |
| economy | 5. Green growth | , | |
| | 6. Green economy | | 03 |
| | 7. Components of green economy | | |
| | 8. Skill development for the | | |
| | green economy | | |
| | 9. Green skills | | |
| | 10. Green jobs | | |
| | 11. Green projects | | |
| Total | | | 10 |

Part B: Vocational Skills

| S.No. | Units | Duration (Hrs.) |
|-------|--|--------------------|
| 1. | Introduction to Warehousing | 10 |
| 2. | Picking, Packing, Kitting, Labelling and Binning | 35 |
| 3. | Loading and Unloading of Goods | 30 |
| 4. | Health, Safety and Security | 20 |

| UNIT 1: INTRODUCTION TO WAREHOUSING | | | |
|--|--|--|----------------------|
| Learning Outcome | Theory (5 Hrs.) | Practical (5 Hrs.) | Duration (10Hrs.) |
| Describe the basics of logistics and supply chain | Meaning, function and importance of Logistics Meaning, function, importance, components and types of supply chain Logistics linkage in supply chain management Relationship between logistics and warehousing | Prepare a chart showing basic functions and requirement of supply chain and logistics Demonstrate the types of Supply chain Visit a Warehouse to prepare a short report on given supply chain management | 2 |
| Demonstrate the fundamentals of warehousing with its functions | Meaning and needs of warehousing Benefits of warehousing Aims of warehousing Classification, & features of warehouses Warehousing operation and warehouse activities Function of warehousing Warehouse people management Role of a warehouse associate and its interface with other job roles Duties and responsibilities of warehouse associate | Draw a chart contains the various benefits of warehouse Form a group and discuss about the various steps involved in the warehouse operations Identify the various primary and secondary functions in a given situation at warehouses Field visit to warehouse and observe duties and responsibilities performed by warehouse associate | 4 |

| 3. Design a layout of warehousing | Meaning and significance of warehouse layout Warehousing layout principles General warehouse layout Warehouse layout and design objectives | 1. Visit the nearest warehouse and design the sample layout of warehouse for general consignment 2. Draw a chart containing principles of warehouse layout 3. Visit the nearby warehouse and list out the characteristics of general warehouse layout 4. Sketch the warehouse layout and design with suitable equipment's | 2 |
|---|---|--|---|
| 4. Demonstrate the use of Personal Protective Equipment (PPEs) and Material Handling Equipment (MHEs) | Types of PPE and MHE Functions of PPE and MHE Importance of PPE and MHE Usefulness of PPE and MHE MHE and PPE equipment used in Warehouse | 1. Identify the Personal Protective equipment's and MHE's 2. Enlist the function of Personal Protective Equipment's and MHE's 3. Analyse the working process of Personal Protective Equipment's and MHE's Total | 2 |

| UNIT 2: PICKING, PACKING, KITTING, LABELLING AND BINNING OF WAREHOUSE PRODUCTS | | | |
|--|--|--|----------------------|
| Learning Outcome | Theory (15 Hrs.) | Practical (20 Hrs.) | Duration (35Hrs.) |
| Describe the picking process and type of MHE to be used for different types of goods | Process of warehousing Meaning of picklist and its components. Different types of Material Handling Equipment (MHEs) and types of goods. Picking process. | Obtain picklist from supervisor for picking and arrange MHE equipment, if required Take the assistance of MHE operator to pick the items from the | 8 |

| | 5. Traditional put-away & | pallet or racks | |
|---|---|---|----|
| | picking process 6. Mechanized put-away & picking process | 3. Deliver to packer or binner as per instructions | |
| | et pretuing produces | 4. Submit daily reports to the supervisor | |
| 2. Demonstrate the different types of packing and labelling process | Meaning and items used for packing and labelling Levels of packing and labelling Process of packing and labelling Terminology used in packaging- Importance of clean area after packing | Collect the packing material and non-production material (NPM) such as labels, tags, barcodes, etc. from the stores Receive the items for packing from the picker or binner, check for damages and report on the same to supervisor Segregate and pack items, label them with bar codes and product tags and seal the packages Handover the packed items to binner or loader Clean the area after packing operations and submit daily reports to the supervisor | 8 |
| 3. Describe the usefulness of personal protective equipment (PPEs), kitting process | Meaning of personal protective equipment (PPE) and equipment's used for kitting Documents required for kitting Kitting items for damages and errors Kitting Process Definition of bill of material (BOM), Bar code Components of kitting | Obtain kitting list from supervisor and details of shift schedule for kitting Use the appropriate PPE based on the product and environment Check items received for kitting for damages, bar code /product label errors and report the same to supervisor Segregate items to | 10 |

| | documentation 7. Check kitting items for damages and errors | be kitted and check bill of material (BOM) for any missing components, and report the same to supervisor 5. Collect required packing cases and sealing material from the packing and storage supervisor and kit the items as per BOM, standard operating procedures (SOP) and place it in the packing case 6. Seal the packing case and label it with tags and barcodes and handover kitted items to picker or loader for transport 7. Clean the area after kitting operation and submit daily reports to supervisor reporting total kitting done, damages, delays and accidents |
|--|--|---|
| 4. Demonstrate the binning for various types of goods and list the equipment and stationery used for binning | Meaning and types of binning Stationary used for binning Binning for various types of goods Binning process Meaning and importance of clean area after post work | 1. Obtain binning instructions for the day from supervisors 2. Arrange for various equipment and stationery required like bins, bar codes and product tags 3. Receive the items for binning, check for damages and report the same to supervisor 4. Segregate items that need to be stored in the warehouse and the ones that need to be shipped in |

| different bins of different geographical regions 5. Bin the items as per instructions, seal and attach label and bar code | |
|--|----|
| 6. Handover binned items to the picker or loader for transport | |
| 7. Clean the area after binning and submit daily reports to the supervisor | |
| Total | 35 |

| UNIT 3: LOADING AND UNLOADING OF GOODS | | | |
|--|---|--|----------------------|
| Learning Outcome | Theory (10 Hrs.) | Practical (20 Hrs.) | Duration (30Hrs.) |
| 1. Describe the material handling equipment (MHE) and personal protective equipment (PPE) used for loading/unloading | Meaning of loading and unloading of goods Identification of load characterizations Unloading & Quality Control (QC) process Types & importance of MHE Types & importance of PPE | Visit nearby warehouse to see the process and steps of loading and unloading employed and list out the same. Enlist the policies and note down the important pointers in your notebook Prepare chart showing the list of MHE and PPE | 6 |
| 2. Demonstrate loading and unloading procedure and documentation | 1. Loading process, standard operating process (SOP) of loading and unloading 2. Order verification & loading (dispatch) of material and equipment required in loading and unloading process 3. Documents required for delivery (outbound) | Understand the procedure of loading and unloading of goods Preparing the delivery (outbound) documents in lab Check the products loaded or unloaded with respect to the order and select the appropriate MHE for it | 8 |

| 4. Demonstrate 1. Designate specific area | 4. Select suitable MHE and enlist precaution for hazardous / special materials. 5. Identify the breakage and spillage while loading and unloading 6. Movement of damaged goods to specific place. | 8 |
|--|---|---|
| the procedure of parking MHE equipment correctly and reporting of daily operations to the supervisor for parking the MHE. 2. Goods as per coding, labelling and marking 3. Documentation and MIS data to be captured. | Classify the goods as per coding, labelling and marking Identify the different packing materials used for packing of MHE Select suitable PPE while loading and unloading of goods Prepare reports of daily operations and share with concerned stakeholders. | 8 |

| UNIT 4: HEALTH, SAFETY AND SECURITY | | | | |
|---|---|--|-----------------------|--|
| Learning Outcome | Theory (10 Hrs.) | Practical (10 Hrs.) | Duration (20 Hrs.) | |
| Monitor health, safety and security procedures in port terminals, Container fright stations (CFS) | Concept and importance of health, safety and security. Precaution in area of operation (CFS and ICD) | Make note of all safety processes in different location (cargo loading area, ramp operation area, etc.) with reference | 3 | |

| and Inland container depots (ICD) | 3. Importance of PPE in cargo.4. Importance of periodical health check ups | to area of operation 2. Demonstrate and wear all PPE such as goggles, ear plugs, helmet, mask, shoes, etc. as applicable in the cargo movement area 3. Undertake and record periodical preventive health check up | |
|---|---|---|---|
| 2. Inspect area and equipment for appropriate and safe conditions | Meaning of safe and unsafe conditions Safety of equipment Importance of stacking, ladders and smoke detectors, tags, labels and signage Implementation of 5S at workplace Standard driving practice | 1. Visit warehouse and recognise unsafe conditions and safety practices at the workplace and report it to concerned authority 2. Visual inspection of activity area and equipment's prepare a chart showing implementation of 5S at workplace 3. Demonstrate standard driving practice to ensure safety of life and material 4. To deploy action in case of signs of any emergency situation or accident or breach of safety 5. Demonstrate stacking of is done at defined height and walk way is free from grease/oil 6. Perform mock drill in situation of emergency like fire alarms, water sprinklers and smoke detectors 7. Perform role-play on | 3 |

| | | holding ladders, platforms and hand rails to be in a sound and safe condition | |
|---|--|--|---|
| 3. Demonstrate the standard operating procedures (SOP) while handling dangerous and hazardous goods | Meaning of dangerous and hazardous goods Handling dangerous and hazardous goods Standardized operating procedure of Warehouse activities Standard material handling procedure Health risks and safety and security procedures Data safety regulations Implementation of standard protocol in case of emergency Concept of escalation matrix | Prepare a chart showing necessary standard operating procedures Adopt the precautions while handling dangerous and hazardous goods Demonstrate security procedures like green gate in port, customs area, factory security, etc. Comply with data safety regulations of the organisation Prepare a chart showing standard material handling procedure Showcase how an escalation matrix works | 8 |
| 4. Documentation of health, safety and security and violations | Documents for health and safety in the workplace Cargo security management Loading instruments and certificates required Importance of security checks | List out 10 different products and note down its maximum height of the stacking items or boxes in meters Case study/ group discussion on accidents happened when walkway is free from grease/oil Enlist various loading instruments and certificates required for it Prepare a list of safety and security procedures related tags, labels and signage are required which can be placed | 6 |

| 5. Demonstrate how cargo has passed security checks and report in case of any violation Total 20 |
|---|
| in the cargo |

GRADE 10

Part A - Employability Skills

| S.No. | Units | Duration (hrs) |
|-------|--|-------------------|
| 1. | Communication Skills – II | 20 |
| 2. | Self-management Skills – II | 10 |
| 3. | Information and Communication Technology Skills – II | 20 |
| 4. | Entrepreneurial Skills – II | 15 |
| 5. | Green Skills – II | 10 |
| | Total | 75 |

| UNIT 1: COMMUNICATION SKILLS – II | | | |
|---|---|--|----------------------|
| Learning Outcome | Theory (12 hrs) | Practical (08 hrs) | Duration (20 hrs) |
| Demonstrate the knowledge of various methods of communication | Methods of communication Communication process and elements | Role-play on communication process Group discussion on the effects of elements of communication cycle. | 05 |
| 2. Describe the types of verbal communication | Verbal communication Types of verbal communication Advantages and disadvantages of Verbal communication Mastering Verbal communication | Role-play of a telephonic conversation Chart preparation on types of verbal communication Group discussion on the advantages and disadvantages | 02 |

| | | of verbal communication 4. Group activity on delivering a speech and practicing public speaking. | |
|--|---|---|---|
| 3. Demonstrate the knowledge of non-verbal communication | Non-verbal communication Importance of Non-verbal communication Types of non-verbal communication Visual communication | Role play on non-verbal communication Group discussion and practice on how to avoid body language mistakes Group discussion on three methods of communication | 2 |
| 4. Describe the communication cycle and importance of feedback | Communication cycle and importance of feedback Feedback Types of feedback Importance of feedback | Role play on providing feedback Group activity on constructive feedback | 2 |
| 5. Identify the barriers to effective communication | 1. Barriers to Effective communication 2. Effective communication 3. Barriers to effective communication • Physical barriers • Linguistic barrier • Interpersonal barriers • Organizational barriers • Culture barriers 5. Ways to overcome barriers to effective communication | 1. Role play on barriers to effective communication 2. Group activity on overcoming barriers to effective communication 3. Chart preparation on barriers to effective communication on barriers to effective communication | 4 |
| 6. Demonstrate the knowledge of parts of speech | Writing skills – Parts of speech Capitalization Punctuations Basics of parts of speech Supporting parts of speech Article Conjunctions Prepositions Interjections | 1. Reading paragraph and sentences and identifying parts of speech 2. Group activity on sentence construction 3. Identifying nouns by guessing the name, place, animal, or thing | 3 |

| 7. Write sentences | Writing Skills - Sentences | 1. Making sentences | |
|--------------------|--|----------------------|----|
| | 2. Parts of sentence | using direct and | |
| | 3. Types of objects | indirect objects | |
| | 4. Types of sentences | 2. Writing a | |
| | Active | paragraph using | |
| | • Passive | active and | |
| | 5. Paragraphs | passive voice | 02 |
| | | 3. Framing different | |
| | | types of sentences | |
| | | (i.e., declarative, | |
| | | exclamatory, | |
| | | interrogative and | |
| | | imperative) | |
| Total | | | 20 |

| Learning Outcome | Theory | Practical | Duration |
|---|---|--|----------|
| | (05 hrs) | (05 hrs) | (10 hrs) |
| 1. Apply stress management techniques | Stress management Stress and Stress management techniques Management technique Ability to work independently Emotional intelligence | Role Play on avoiding stressful situation Activity on listing stressful situations and discussing the stress management techniques like yoga, deep breathing exercises etc. | 02 |
| 2. Identify strengths and weaknesses of self | Self-Awareness – Strength and Weakness Analysis Knowing yourself Strength and weakness analysis Techniques for identifying strengths and weaknesses Difference between interests and abilities | Group discussion on aim and goal in life Perform a strength and weakness analysis Group discussion on interests and abilities | 02 |
| 3. Demonstrate the knowledge of self-motivation | Self-Motivation Types of motivation Qualities of self-motivated people Building self-motivation | Group discussion on staying motivated Activity on listing the ways to motivate oneself | 02 |

| 4. Set SMART goals | Self-Regulation – Goal Setting Goals and Setting SMART goals How to set goals Specific Measurable Achievable Realistic Time bound | Group activity on setting SMART goals Writing long- term and short-term goals Activity on listing the ways to surely set SMART goals | 02 |
|---|--|--|----|
| 5. Demonstrate the knowledge of time management | Self-Regulation – Time Management Time management and its importance Example and non-example of time management Four steps for effective time management Organise Prioritise Control Track Tips for practicing the four steps of effective time management | Preparing a list of activities to practice time management Discussion on how to manage time to reach school on time | 02 |
| Total | - | | 10 |

| UNIT 3: INFORMATION AND COMMUNICATION TECHNOLOGY SKILLS - II | | | | | |
|--|--|---|----------------------|--|--|
| Learning Outcome | Theory (08 hrs) | Practical (12 hrs) | Duration (20 hrs) | | |
| 1. Perform basic computer operations | Basics computer operations Computer hardware and software Starting a computer Shutting down a computer Using keyboard Using a mouse Roll over or hover Point and click Drag and drop Double click | Demonstration on use of computers Group activity on using the keyboard | 12 | | |

| 2. Apply basic file operations | Performing basic file operations Basic File Operations Files and folders Creating a file Creating a folder | 02 |
|---|--|----|
| 3. Demonstrate computer care and maintenance | Computer care and Maintenance Importance of care and and maintenance of computers Basic tips for taking care of devices Cleaning computer devices Preparing maintenance schedule for computers Taking backup data Scanning and cleaning viruses Removing SPAM files In Group activity on preparing a chart on care and maintenance of computer | 03 |
| 4. Describe the importance of maintaining computer security and privacy | Computer security and privacy Computer security deals with protecting computer Reasons for security breach Threats to computer Protecting your data Group activity on preparing an infographic chart on computer security and privacy | 03 |
| Total | | 20 |

| UNIT 4: ENTREPRENEURIAL SKILLS – II | | | | | |
|--|---|--|----------------------|--|--|
| Learning Outcome | Theory (06 hrs) | Practical (09 hrs) | Duration (15 hrs) | | |
| Describe the meaning of entrepreneurship | Entrepreneurship and society Activities of entrepreneurs: Fulfil customer needs Use local materials Help society Create job Share wealth Lower price product | Group work on finding the problems in school campus and turning them into business opportunities | 05 | | |

| 2. Identify the qualities and functions of an entrepreneur | Qualities and functions of an entrepreneur Qualities of an entrepreneur Qualities of an entrepreneur Brainstorming on solving a problem in their area Taking an interview of an entrepreneur | 03 |
|--|--|----|
| 3. Describe the myths and realities about entrepreneurship | Misconceptions and myths about entrepreneurship Activity on interviewing the entrepreneurs Group activity on identifying everyday heroes Activity on interviewing the entrepreneurs Group activity on interviewing the entrepreneurs Group activity on interviewing the entrepreneurs Selling to someone | 04 |
| 4. Describe entrepreneurship as a career option | Entrepreneurship as a career option Meaning of career Ways of earning a living Self-employment Wage employment Entrepreneur career process Enter Survive Group discussion on the power of entrepreneurship | 03 |
| Total | | 15 |

| UNIT 5: GREEN SKILLS – II | | | | | |
|---|--|--|----------------------|--|--|
| Learning Outcome | Theory (07 hrs) | Practical (03 hrs) | Duration (10 hrs) | | |
| Demonstrate the knowledge of green skills | Sustainable Development Importance of sustainable development Problems related to sustainable development Sustainable development Goals | Group activity on creating garden in the school or planting tree saplings Group discussion on "How to prevent wastage" | 05 | | |

Part B-Vocational Skills

| S. No. | Units | Duration (Hrs.) |
|--------|--|--------------------|
| 1. | Handling of Perishable Goods | 27 |
| 2. | Handling of Fast-Moving Consumer Goods | 27 |
| 3. | Handling of Automotive Goods | 27 |
| 4. | 4. Integrity and Ethics | |
| | Total | 125 |

| UNIT 1: HANDLING OF PERISHABLE GOODS | | | | |
|---|--|--|----------------------|--|
| Learning Outcome | Theory (10 Hrs.) | Practical (17Hrs.) | Duration (27Hrs.) | |
| Describe the coding requirement for various types of perishable | Concept, features and classification of perishablegoods Importance of the individual's role in the workflow for | Identify and comply with various coding of perishables goods stored inwarehouse Enlist the precautions as per standard | 5 | |

| products | handling perishable goods 3. Procedure's to be followed for handling perishable goods 4. Coding system followed tolabel items 5. Basics of enterprise resource planning system of the organization for coding | operating procedures (SOP) for handling various perishable products 3. Identify the right equipment required for handling the perishable goods 4. Prepare a chart of safety standards and security procedures to be followed while handling perishable goods |
|---|--|--|
| 2. Demonstrate segregation, sorting, and grading operations in a cold chain warehouse | Introduction of Cold Chain Ideal time required for each cold chain activity Process flow of cold chain operation Types of goods and their handling precautions as per SOP Characteristics of the products being handled, for e.g.: texture, odor, stickiness etc. Maintenance temperature as per product types Segregation, sorting and grading operations | 1. List the equipment used while handling goods in cold chain warehouse 2. Visit a cold storage and measure the units and scales used in cold storage operations and check how to maintain cold chain temperature properly 3. Prepare a list of 10 products maintain ambient temperature as per productnature 4. Demonstrate and segregate, sort and grade the perishable goods as per SOP and customer needs and standards |
| 3. Identify the cleaning process of cold chain warehouse and its equipment | 1. Meaning of cleaning process of cold chain warehouse 2. Equipment's required cold chain warehouse to remove product from slots 3. SOP to prevent contamination | 1. Prepare PPT showing clean slot with cleaning supplies and scrubbers (electric or manual) clean and maintain warehouse aisles and product slots 2. Demonstrate how to remove product from slots with the use of a pallet jack 3. Prepare a chart enlisting precautions as per SOP |

| Total | | 6. | contamination Company's reporting structure and policy | | | 27 |
|-------|---|----------------------|---|--|---|----|
| | | | | | | |
| | Identify contaminate d goods and quarantine procedure | 1. 2. 3. 4. | Meaning of contaminated goods and quarantine procedure Clean and maintenance of warehouse aisles and product slots Procedures for dealing with loss or damage to goods Risk and impact of not following defined work, safety and security procedures Precautions followed to avoid | 2. | Prepare a chart showing quarantine procedure for contaminated goods Identify contaminated goods and quarantine them as per SOP Prepare daily report and send to supervisor among total loading/unloading done, damages, delays and report to supervisor about miss happenings and accident. | 5 |
| | Demonstrate the MHE usage for loading, unloading and movement of perishable goods | 1. 2. 3. | Moving of goods from staging area / unloading area to storage goods Material handling equipment and their uses for perishable goods Organizational procedures and policy on quality, use of PPEs, use of equipment, MHEs, documentation, etc. Precautions to kept in mind while loading of perishable products | 2. 3. 4. | Identify goods to be moved either to the storage from the staging area / unloading area Make arrangement of equipment/tools such as pallets, reach stack, fork lift, PPE, etc. according to type of perishable product Show how to operate MHE or use MHE operator to pick the perishable items Demonstrate how to load finished pallets of perishable products on assigned trailers safely and accurately | 5 |

| UNIT 2: HANDLING OF FAST-MOVING CONSUMER GOODS | | | | |
|--|--|---|-----------------------|--|
| Learning Outcome | Theory (10Hrs.) | Practical (17 Hrs.) | Duration (27 Hrs.) | |
| Enlisting the components of documentation for fast-moving consumer | Basis of FMCG Importance of individual workflow handling Concept and types of FMCG | Identify and comply coding requirements for storage of FMCG List the various types of coding in a | 5 | |

32 | Page

| goods (FMCG) warehouse goods movement process | Warehouse FMCG goods movement process Meaning and types of coding system and followed to label FMCG items Company's policy and work instructions on quality standards, use of PPE, use of equipment, MHEs, documentation, etc., for FMCG warehouse goods movement | FMCG warehouse 3. Review daily plan for goods to be moved in or out of warehouse/fulfilmen t center/ mother hub/ distribution center/ delivery center 4. Recognize 10 FMCG items for coding and labeling purpose 5. Pick the items from the pallet or racks, if required with the assistance of MHE operator | |
|---|---|---|---|
| 2. Identify FMCG goods and its storage location based on picklist | Meaning and types of picklists SAP material picklist transaction codes Meaning and uses of different information processing devices like barcode scanners, Radio Frequency Identification (RFID) scanners, etc. | Identify goods to be moved either to the storage from the staging area / unloading area Clean and maintain warehouse aisles and product slots. Arrange the storage facilities for FMCG in warehouse Make arrangement for equipment/tools such as pallets, reach stack, fork lift, PPE, etc. according to the kind of product to be handled and Operate information processing devices such as barcode, scanner, radio frequency identification (RFID), scanner, etc. | 5 |
| 3. Perform various types of order picking | 1. Concept and types of order picking such as single order picking, batch picking, zone picking, pick and pass, multi batch picking, order consolidation, wave picking and their corresponding documentation 2. Risk and impact of not following defined work, | 1. Execute different types of order picking such as, single order picking, batch picking, pick and pass, multi batch picking, order consolidation, wave picking etc. 2. Prepare a list of safety and security | 5 |

| | safety and security procedures | procedures to be followed for picking the FMCG 3. Verify the orders as per the conditions mentioned | |
|--|---|---|----|
| 4. Demonstrate sorting, placing of goods and the process of packaging and labelling | Meaning of sorting system Procedures for dealing with loss or damage to goods Sorting and placing the goods in suitable places Meaning and process of packaging and labelling Defected or broken products | Sort and place materials or items on racks, shelves, or in bins according to predetermined sequence such as size, type, style, color, or product code Manage and sort loss or damage to FMCG Checked the placed FMCG Identify and report defected or broken products to the supervisor Handle all activities related to packaging, labeling etc. of stock during shift and Check the entire process of packaging and labeling | 8 |
| 5. Maintain First- Out (FIFO)/ Last In, First Out (LIFO) inventory methods | Meaning of inventory management Process of inventory Management FIFO, LIFO meaning with numerical SOP inventory cycle counting | Assist during inventory cycle counting as per SOP and report the status Differentiate between the FIFO and LIFO inventory methods for FMCG Ensure First-In, First-Out (FIFO)/ Last In, First Out (LIFO) inventory management as per company/product Standard Operating Procedures (SOP) | 4 |
| | | Total | 27 |

| UNIT 3: HANDLING OF AUTOMOTIVE GOODS | | | | |
|---|--|----------------------|--|--|
| Learning Outcome | Theory Practical (10 Hrs.) (17 Hrs.) | Duration (27Hrs.) | | |
| Demonstrate the packing/ depacking and labelling of automotive goods | Meaning of automotive goods, packing/ de-packing and labelling of automotive goods Certifications for automotive goods Coding system and its importance in automotive goods Perform packing/ depacking and labelling of automotive goods Check for adherence to different certifications for automotive goods Coding system and its followed to label the automotive goods | 3 | | |
| 2. Demonstrate loading/ unloading of automotive goods from fixtures/ crates/ pallets/ boxes | Selection of warehouse racking system Warehouse pallet rack Different types of warehouse racking systems: Drive-in pallet racking systems Pallet flow racking systems Carton flow racking systems Cantilever racking systems Cantilever racking systems Cantilever racking systems Wrapping it up Demonstrate loading goods on fixtures/crates/pallets/boxes. Identify goods to be moved either to the staging area / unloading area Demonstrate how to operate the pallets Create rack design as per the size of automotive goods Classify the different racking systems and their usefulness with different automotive goods | 6 | | |
| 3. Demonstrate the Kanban process of material storage and inventory management with process improvement tools | Meaning, Benefits and types of inventory management Process Improvement Tools; Kanban, 5S, just in time (JIT), Kaizen, poka-yoke and other poka yoke Follow 5S, just in time (JIT), Kaizen, poka-yoke and other poka yoke and other poka yoke process improvement guidelines as instructed by supervisor List the benefits of inventory management for automotive goods | 5 | | |
| 4. Explain the MHE and PPE used for various types of automotive goods | Material handling equipment used for operation based on information from the supervisor Procedures and policy Material handling equipment used for of MHE for operation based on information from the supervisor Take the assistance of MHE operator to pick | 3 | | |

| | on quality, use of personal protective equipment, use of equipment, MHEs, documentation, etc. | the items from the pallet or racks, if required | |
|--|--|---|----|
| 5. Discuss the precautions to be taken while loading/ unloading, strapping and lashing of goods | Meaning of Loading and unloading items safe strapping and lashing of pallets/ crates/ boxes/ fixtures | Perform safe strapping and lashing of pallets/crate for automotive goods Adopt the precautions while loading/unloading of automotive goods Identify the different roles of employers and employees while handling automotive goods | 3 |
| 6. Demonstrate the types of packaging and palletization of automotive goods | Meaning of packaging and palletization Types, advantage and limitations of palletization Meaning of racking and storage systems | Demonstrate the loading of finished pallets of product onto assigned trailers safely and accurately Maintain racking and storage systems in automobile warehousing | 3 |
| 7. Detail the steps in inventory counting process and report defective or broken automotive products | Meaning and process of inventory counting Meaning of defective, damaged and wrong products Importance of clean warehouse aisles SOP for dangerous and special goods | Assist during inventory cycle counting as per standard operating procedures and report the status Report defected or broken automotive products to the supervisor Clean and maintain warehouse aisles and submit a daily report to the supervisor Coding system followed to label automotive items | 4 |
| | 1 | Total | 27 |

| UNIT 4: INTEGRITY AND ETHICS | | | | |
|--|--|---|-------------------|--|
| Learning Outcome | Theory (04Hrs.) | Practical (10Hrs.) | Duration (14Hrs.) | |
| Describe company's policies and various regulatory | 1. Company's policies on use of language, human resources policies, code of ethics, whistle blower | Role play to show how to avoid using company's funds, property or resources for undertaking | 2 | |

| requirements | policy | personal activities | |
|--|---|--|---|
| related to logistics industry | 2. Company's rules related to sexual harassment 3. Various regulatory requirements | Show how to protect customer's information and ensure it is not misused Prepare PPT showing how to follow the rules strictly on sexual harassment Identify various regulatory requirements to logistic industry through chart | |
| Explain data, information and security practices | Meaning of data, information, data information security and steps to protect information Concept and content of report Company's reporting to management | 1. Students must learn various ICT tools and must know about the applications to protect customer's information; data information related to business or commercial decisions and ensure it is not misused 2. Enlist suitable security practices that can be performed in organization | 2 |
| 3. Comply to regulatory requirements and Practice code of conduct and etiquettes | Principles of code of ethics and business ethics Follow etiquettes in accordance to the place Corruption practices Meaning of nepotism | Show how to avoid acceptance of cash or kind from vendors for support or contract negotiations Demonstrate and practice ethics in day-to-day processes and dealings with customers and colleagues Consult supervisor or senior management when in situations that may require differentiating between ethical and unethical Report promptly all violations of code of ethics Prepare PPT showing dress up and conduct in a professional manner Communicate with clients and stakeholders in a soft and polite manner and follow etiquettes in accordance to the place | 5 |

| | | 7. Enlist how to refrain from indulging in corrupt practices | |
|--|---|---|----|
| 4. Document integrity and ethics violation | Meaning of document integrity and ethics violation Ethical and nonethical practices Meaning, types and process of escalation matrix for reporting deviation Personal protective equipment and regulatory documentation Dangerous goods and SOP for handling of different types of dangerous goods | Demonstrate routine ethical process and interpersonal communication with clients. Check for regulatory documentation and compliances for the shop floor as per information from the supervisor Show the use personal protective equipment in accordance to regulatory requirements Identify the different types of dangerous goods and handling methodologies Follow the SOP for handling of different types of dangerous goods Consult supervisor or senior management when in situations that may require differentiating between ethical and unethical and report all regulatory violations | 5 |
| | | Total | 14 |

6. ORGANISATION OF FIELD VISITS

In a year, at least 3 field visits/educational tours should be organised for the students to expose them to the activities in the workplace.

Visit a warehouse and observe the following: Location, Site, Office building, bin, Entry & Exit gate, Store, Gate and fencing. During the visit, students should obtain the following information from the Owner /Supervisor / Manager of the warehouse:

- 1. Area under warehouse and its layout
- 2. Types of products entered in warehouse
- 3. Type of storage bins
- 4. Various equipment's used at warehouse
- 5. Documents used at the time of arrival and dispatch of goods.
- 6. Sale procedure
- 7. Manpower engaged

- 8. Total expenditure of warehouse
- 9. Total annual income
- 10. Profit/Loss (Annual)
- 11. Any other information
- 12. Warehouse lighting
- 13. Waste management
- 14. Forklift trucks

7. LIST OF EQUIPMENT AND MATERIALS

The list given below is suggestive and an exhaustive list should be prepared by the vocational teacher. Only basic tools, equipment and accessories should be procured by the Institution so that the routine tasks can be performed by the students regularly for practice and acquiring adequate practical experience.

A. Training Material inside Lab

| SL No | Name of Item | Quantity | Approximate Cost |
|-------|---|-----------------------|---------------------|
| 1. | Physical balance(01mg) / Counter Balance (01gm sensitivity) | 1 | 1400-2400 |
| 2. | Digital moisture meter calibrated for all the commodities to be stored/ handled | 1 | 15000 |
| 3. | Sieve Set | 1 | 2500 |
| 4. | Scoops (different sizes) | 2 sets | 3000 |
| 5. | Forceps and brushes | 2 sets | 1000 |
| 6. | Weight Box (1mg to 200gm) | 1 set | 2000 |
| 7. | Enamel plates with smooth white surface (30 cm dia with raised rims) | 10 | 3000 |
| 8. | Sample bags-polythene and cloth | As per Requirement | 1000 |
| 9. | Parkhi (Bag trier) | As per Requirement | 800 |
| 10. | Sample seal | 1 | 200 |
| 11. | Magnifying glass (magnification 10X) | 2 | 3200 |
| 12. | Petri dish (80X70 mm) | As per Requirement | 90 |
| 13. | Measuring Cylinders (5ml to 50ml) graduated | 5 | 1700 |
| 14. | Recommended Pesticides (for prophylactic and curative treatments) and rat control | As per requirement | 800 |
| 15. | Rat cages (wonder traps) | As per requirement | 200 |
| 16. | Thermoplastic fumigationcovers (IS 13217:1991) | As per requirement | 300 |

| 17. | Multilayered cross | As per | 800 |
|-----|---|--|-------|
| | laminated fumigation sheets/covers (IS 14611:1998) | requirement | |
| 18. | Foot / Hand sprayers | As per requirement | 3000 |
| 19. | Sand snakes | As per requirement | 8000 |
| 20. | Adhesive tape | As per requirement | 80 |
| 21. | Tarpaulin | 2 | 2000 |
| 22. | Ladder | 1 | 800 |
| 23. | First Aid box | 1 | 800 |
| 24. | Fire extinguishers | As prescribed in Annexure V | 800 |
| 25. | Fire buckets | As prescribed inAnnexure V | 250 |
| 26. | Platform Scales | As per need | 450 |
| 27. | Gum boots | As per requirement | 600 |
| 28. | Goggles | As per requirement | 500 |
| 29. | Gas Mask (full vision facemask) & Canister for use with ALP | As per requirement | 600 |
| 30. | Polythene film | As per requirement | 700 |
| 31. | Bamboo mats | As per requirement | 500 |
| 32. | Wooden crates/polycrates | As per requirement | 300 |
| 33. | Hectolitre weightapparatus | 1 | 15000 |
| 34. | Sample Divider | 1 | 15000 |
| 35. | Vernier Caliper (manual/Digital) | 1 | 16000 |
| 36. | Thermo-hygrometer | 2 | 2000 |
| 37. | Glass wares (Beakers 500ml , Funnels, Flasks conical 200 ml & 500 ml) | Glass wares (Beakers 500ml , Funnels, Two each | |
| 38. | Filter papers | As per requirement | 600 |
| 39. | Chemical reagents: (i) Methylene Blue solution (ii) Dilute hydrochloric acid (iii) distilled water (for determination of de- husked grain in rice) | As per requirement | 5000 |
| 40. | Glass tubes | 10 | 600 |
| 41. | Metal Probe (12 ft longfor introducing ALP tablets) | As per requirement | 750 |
| 42. | Phosphine Alert personalmonitor | 1 | 18000 |
| 43. | Phosphine gas Monitor | 1 | 8000 |

| 44. | Tool Box (for minor repairsof pesticide application equipment) | As per requirement | 14000 |
|-----|--|--------------------|-------|
| 45. | Dust Mask | As per requirement | 5000 |
| 46. | Aprons | As per requirement | 500 |
| 47. | Resuscitator | 1 | 800 |

B. Equipment's to be seen during Field Visit

- 1. Organizational Chart of the warehouse
- 2. Fork lifts
- 3. Reach trucks
- 4. Shelf designs
- 5. Shelf marks
- 6. Trolleys
- 7. Any other automatic and semi-automatic equipment used on site.
- 8. Safety and security equipment's on site
 - Fire extinguisher
 - Security cameras
 - LCD screens
 - Safety sign boards
 - Personal protective equipment's (PPE) like gloves, helmets, jackets, harness etc.
 - Locking systems
- 9. Housekeeping equipment's on site
 - Vacuum cleaner
 - Mops
 - Cleaning chemicals
 - Cleaning Robots
 - Air purifiers
 - Filtering machines
 - Spill Absorbents
- 10. Waste disposal equipment's such as scrap bins, recyclers, waste processing machines etc
- 11. Any other equipment mentioned in the student's manual can be sighted during the field visit

C. Teaching/Training Aids

- 1. Computer
- 2. LCD Projector
- 3. Projection Screen
- 4. White/Black Boards
- 5. Flip Charts

8. VOCATIONAL TEACHER'S/ TRAINER'S QUALIFICATION AND GUIDELINES

Qualification and other requirements for appointment of vocational teachers/trainers on contractual basis should be decided by the State/UT. The suggestive qualifications and minimum competencies for the vocational teacher should be as follows:

| SI. No. | Qualification | | Minimum Competencies | Age Limit |
|------------|---|---|---|---|
| 1. | Graduate (B. Com/BBA) or Three-years Diploma in Logistics Management, P.G. Diploma in Logistics Management with at least 55% marks And One-year work or teaching experience in the area of logistics. Preference will be given to higher education with MBA/M. Com (Marketing or Logistics Management) and/or PG Diploma in Marketing or Logistics Management. | • | Effective communication skills (oral and written) Basic computing skills. Technical competencies (e.g., in areas such as marketing, sales promotion, store maintenance, marketing and merchandising etc.) | 18-37 years (as on Jan. 01 (year)) Age relaxation to be provided as per Govt. rules. |

Vocational Teachers/Trainers form the backbone of Vocational Education being imparted as an integral part of Samagra Shiksha (SS). They are directly involved in teaching of vocational subjects and also serve as a link between the industry and the schools for arranging industry visits, On-the-Job Training (OJT) and placement.

These guidelines have been prepared with an aim to help and guide the States in engaging quality Vocational Teachers/Trainers in the schools. Various parameters that need to be looked into while engaging the Vocational Teachers/Trainers are mode and procedure of selection of Vocational Teachers/Trainers, Educational Qualifications, Industry Experience, and Certification/Accreditation.

The State may engage Vocational Teachers/Trainers in schools approved under the component of Vocationalisation of Secondary and Higher Secondary Education under RMSA in the following ways:

 Directly as per the prescribed qualifications and industry experience suggested by the PSS Central Institute of Vocational Education (PSSCIVE), NCERT or the respective Sector Skill Council (SSC)

OR

(ii) Through accredited Vocational Training Providers accredited under the National Quality Assurance Framework (NQAF*) approved by the National Skill Qualification Committee on 21.07.2016. If the State is engaging Vocational Teachers/Trainers through

the Vocational Training Provider (VTP), it should ensure that VTP should have been accredited at NQAF Level 2 or higher.

* The National Quality Assurance Framework (NQAF) provides the benchmarks or quality criteria which the different organisations involved in education and training must meet in order to be accredited by competent bodies to provide government-funded education and training/skills activities. This is applicable to all organizations offering NSQF-compliant qualifications.

The educational qualifications required for being a Vocational Teacher/Trainer for a particular job role are clearly mentioned in the curriculum for the particular NSQF compliant job role. The State should ensure that teachers / trainers deployed in the schools have relevant technical competencies for the NSQF qualification being delivered. The Vocational Teachers/Trainers preferably should be certified by the concerned Sector Skill Council for the particular Qualification Pack/Job role which he will be teaching. Copies of relevant certificates and/or record of experience of the teacher/trainer in the industry should be kept as record.

To ensure the quality of the Vocational Teachers/Trainers, the State should ensure that a standardized procedure for selection of Vocational Teachers/Trainers is followed. The selection procedure should consist of the following:

- (i) Written test for the technical/domain specific knowledge related to the sector;
- (ii) Interview for assessing the knowledge, interests and aptitude of trainer through a panel of experts from the field and state representatives; and
- (iii) Practical test/mock test in classroom/workshop/laboratory.

In case of appointment through VTPs, the selection may be done based on the above procedure by a committee having representatives of both the State Government and the VTP.

The State should ensure that the Vocational Teachers/Trainers who are recruited should undergo induction training of 20 days for understanding the scheme, NSQF framework and Vocational Pedagogy before being deployed in the schools.

The State should ensure that the existing trainers undergo in-service training of 5 days every year to make them aware of the relevant and new techniques/approaches in their sector and understand the latest trends and policy reforms in vocational education.

The Head Master/Principal of the school where the scheme is being implemented should facilitate and ensure that the Vocational Teachers/Trainers:

- (i) Prepare session plans and deliver sessions which have a clear and relevant purpose and which engage the students;
- (ii) Deliver education and training activities to students, based on the curriculum to achieve the learning outcomes;
- (iii) Make effective use of learning aids and ICT tools during the classroom sessions;
- (iv) Engage students in learning activities, which include a mix of different methodologies, such as project-based work, team work, practical and simulation-based learning experiences;

- (v) Work with the institution's management to organise skill demonstrations, site visits, onjob trainings, and presentations for students in cooperation with industry, enterprises and other workplaces;
- (vi) Identify the weaknesses of students and assist them in up gradation of competency;
- (vii) Cater to different learning styles and level of ability of students;
- (viii) Assess the learning needs and abilities, when working with students with different abilities
- (ix) Identify any additional support the student may need and help to make special arrangements for that support;
- (x) Provide placement assistance

Assessment and evaluation of Vocational Teachers/Trainers is very critical for making them aware of their performance and for suggesting corrective actions. The States/UTs should ensure that the performance of the Vocational Teachers/Trainers is appraised annually. Performance based appraisal in relation to certain pre-established criteria and objectives should be done periodically to ensure the quality of the Vocational Teachers/Trainers. Following parameters may be considered during the appraisal process:

- 1. Participation in guidance and counselling activities conducted at Institutional, District and State level:
- 2. Adoption of innovative teaching and training methods;
- 3. Improvement in result of vocational students of Class X or Grade XII;
- 4. Continuous up gradation of knowledge and skills related to the vocational pedagogy, communication skills and vocational subject;
- 5. Membership of professional society at District, State, Regional, National and International level;
- 6. Development of teaching-learning materials in the subject area;
- 7. Efforts made in developing linkages with the Industry/Establishments;
- 8. Efforts made towards involving the local community in Vocational Education
- 9. Publication of papers in National and International Journals;
- 10. Organisation of activities for promotion of vocational subjects;
- 11. Involvement in placement of students/student support services.

9. LIST OF CONTRIBUTORS

1. Dr. Punnam Veeraiah

Professor and HOD Department of Business & Commerce, PSSCIVE, Bhopal

Email: <u>vp672000@gmaill.com</u> Mob: 08989014432, 09893332807

2. Ms. Deeksha Chaurasia

Assistant Professor, Department of Business & Commerce, PSSCIVE, Bhopal

Email: <u>deekshachaurasia112@gmaill.com</u>

Mob: 07000751245



PSS CENTRAL INSTITUTE OF VOCATIONAL EDUCATION Shyamla Hills, Bhopal- 462 002, M.P., India