**QUALIFICATION FILE-** **Packaging Designer**

[x]  **Short Term Training (STT)** [ ]  **Long Term Training (LTT)** [ ]  **Apprenticeship**

[ ]  **Upskilling ☐ Dual/Flexi Qualification** [ ]  **For ToT** [ ]  **For ToA**

[ ] **General** [ ]  **Multi-skill (MS)** [x]  **Cross Sectoral (CS)** [x]  **Future Skills**

**NCrF/NSQF Level: 6**

**Submitted By:**

**Logistics Sector Skill Council**

No. 480 A, 7th floor Khivraj Complex 2, Anna Salai, Nandanam, Chennai – 600 035

**Submitting Body Contact Details:**

Name : Ms. Reena Murray

Position in the Organization : Head – Standards & Quality Assurance

Address if different from above : Same as above

Tel number : 044 4851 4607

E-mail address : reena@lsc-india.com

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# Section1: Basic Details

|  |  |  |
| --- | --- | --- |
|  | **Qualification Name** | Packaging Designer |
|  | **Sector/s** | Logistics |
|  | **Type of Qualification** [x]  **New** [ ]  **Revised** [x]  **Has Electives/Options** | **NQR Code & version of the existing /previous qualification:**  | **Qualification Name of the existing version:** |
|  | **National Qualification Register (NQR) Code & Version** (*Will be issued after NSQC approval)* | QG-06-TW-00866-2023-V1-LSC & 1.0 | 1. **NCrF/NSQF Level:** 6
 |
|  | **Award (Certificate/Diploma/ Advanced Diploma/Any Other)***(Wherever applicable specify multiple entry/exits also & provide details in annexure)* | Certificate |
|  | **Brief Description of the Qualification** | The Packaging Designer is responsible for designing tertiary packaging - after considering the shape, size, weight, volume & orientation of the item to be packed - to safeguard the product, post manufacturing till delivery to the seller. The individual is responsible for conceptualizing, designing, and building a prototype with packaging materials, considering additional elements such as logistics cost, transit type, time, weather, client specifications etc., to create functional and sustainable packaging. |
|  | **Eligibility Criteria for Entry for Student/Trainee/Learner/Employee**  | 1. **Entry Qualification & Relevant Experience:**

| **S. No.** | **Academic/Skill Qualification (with Specialization - if applicable)** | **Relevant Experience (with Specialization - if applicable)** |
| --- | --- | --- |
| 1 | Pursuing PG diploma after 3 year UG degree (in Mechanical/ Package Designing) | - |
| 2 | B.E. (Completed B.E. Mechanical Engineering/ B.DES) | - |
| 3 | Completed Diploma in Mechanical Engineering | 2 Years of experience in Mechanical designing |
| 4 | 12th grade Pass | 4 Years of experience in Mechanical designing |

1. **Age:** 23 years
 |
|  | **Credits Assigned to this Qualification** *(as per National Credit Framework (NCrF))* | 26 | 1. **Common Cost Norm Category (I/II/III)** *(wherever applicable)***:** I
 |
|  | **Any Licensing Requirements for Undertaking Training on This Qualification** *(wherever applicable)* | NA |
|  | **Training Duration by Modes of Training Delivery** *(Specify* ***Total Duration*** *as per selected training delivery modes and as per requirement of the qualification)* | [x] **Offline Only** [ ]  **Online Only** [ ]  **Blended**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Training Delivery Modes** | **Theory (Hours)** | **Practical (Hours)** | **OJT Mandatory (Hours)** | **OJT Recommended (Hours)** | **Total (Hours)** |
| **Classroom (offline)** | 200 | 430 | 30 |  | 660 |
| **Online**  |  |  |  |  |  |

*(Refer Blended Learning Annexure for details)* |
|  | **Aligned to NCO/ISCO Code/s** *(if code is not available, then mention the same)* | NCO-2015/2166,2163  |
|  | **Progression Path After Attaining the Qualification** *(Please show Professional and Academic progression) (wherever applicable)* | Senior Packaging Designer |
|  | **Other Indian Languages in which the Qualification & Model Curriculum are being Submitted** | Hindi |
|  | **Is similar Qualification(s) available on NQR-if yes, justification for this qualification** | [ ]  **Yes** [x]  **No** **URLs of similar Qualifications:** |
|  | **Is the Job Role Amenable to Persons with Disability** | [x]  **Yes** [ ]  **No *If “Yes”, specify applicable type of Disability:*** Locomotive Disability |
|  | **How participation of women will be encouraged?** | The Job Role involves more of technical, logical skills and requires less of manual labour. Hence best suited for women. |
|  | **Are Greening/ Environment Sustainability Aspects Covered** *(Specify the NOS/Module which covers it), wherever applicable* | [x]  **Yes** [ ]  **No** |
|  | **Is Qualification Suitable to be Offered in Schools/Colleges**  | **Schools** [ ]  **Yes** [x]  **No Colleges** [x]  **Yes** [ ]  **No**  |
|  | **Name and Contact Details of Submitting / Awarding Body SPOC***(In case of CS or MS, provide details of both Lead AB & Supporting ABs)* | **Name**: Ms. Reena Murray**Email**: reena@lsc-india.com **Contact** **No**.: 044 4851 4607**Website**: www.lsc-india.com |
|  | **Final Approval Date by NSQC:** 31-08-2023 | 1. **Validity Duration:** 3 Years
 | 1. **Next Review Date:** 31-08-2026
 |

# Section 2: Module Summary

## NOS/s of Qualifications

*(In exceptional cases these could be described as components)*

### Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

***Th****.-Theory* ***Pr.****-Practical* ***OJT****-On the Job* ***Man.****-Mandatory Training* ***Rec.****-Recommended* ***Proj.****-Project*

| **S. No** | **NOS/Module Name** | **NOS/Module Code & Version** *(if applicable)* | **Core/ Non-Core** | **NCrF/NSQF Level** | **Credits as per NCrF** | **Training Duration (Hours)**  | **Assessment Marks** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Th.** | **Pr.** | **OJT-Man.** | **OJT-Rec.** | **Total** | **Th.** | **Pr.** | **Proj.** | **Viva** | **Total** | **Weightage (%)** *(if applicable)* |
|  | Introduction |  | Non-Core | 6 | 1 | 20 | 10 |  |  | 30 | 0 | 0 | 0 | 0 | 0 |  |
|  | Perform packaging analysis | LSC/N0202 | Core | 6 | 2 | 20 | 40 |  |  | 60 | 30 | 60 | 0 | 10 | 100 |  |
|  | Prepare for designing | LSC/N0203 | Core | 6 | 3 | 30 | 60 |  |  | 90 | 30 | 60 | 0 | 10 | 100 |  |
|  | Design sustainable tertiary packaging | LSC/N0204 | Core | 6 | 3 | 20 | 60 | 10 |  | 90 | 30 | 60 | 0 | 10 | 100 |  |
|  | Create a 3D design using CAD | LSC/N0205 | Core | 6 | 3 | 20 | 60 | 10 |  | 90 | 30 | 60 | 0 | 10 | 100 |  |
|  | Develop a working prototype | LSC/N0206 | Core | 6 | 3 | 20 | 60 | 10 |  | 90 | 30 | 60 | 0 | 10 | 100 |  |
|  | Maintain and monitor integrity and ethics in operations | LSC/N9908 | Core | 6 | 1 | 10 | 20 |  |  | 30 | 30 | 70 | 0 | 0 | 100 |  |
|  | Follow health, safety and security procedures at workplace. | LSC/N9910 | Core | 6 | 1 | 10 | 20 |  |  | 30 | 30 | 70 | 0 | 0 | 100 |  |
|  | Employability Skills | DGT/VSQ/N0103 | Non-Core | 6 | 3 | 30 | 60 |  |  | 90 | 20 | 30 | 0 | 0 | 50 |  |
| **Duration (in Hours) / Total Marks** |  |  | 20 | 180 | 390 | 30 |  | 600 | 230 | 470 | 0 | 50 | 750 |  |

### Elective NOS/s:

| **S. No** | **NOS/Module Name** | **NOS/Module Code & Version** *(if applicable)* | **Core/ Non-Core** | **NCrF/NSQF Level** | **Credits as per NCrF** | **Training Duration (Hours)**  | **Assessment Marks** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Th.** | **Pr.** | **OJT-Man.** | **OJT-Rec.** | **Total** | **Th.** | **Pr.** | **Proj.** | **Viva** | **Total** | **Weightage (%)** *(if applicable)* |
|  | Designing hazardous goods packaging | LSC/N0207 | Core | 6 | 2 | 30 | 30 |  |  | 60 | 30 | 60 | 0 | 10 | 100 |  |
|  | Designing Fragile goods packaging | LSC/N0208 | Core | 6 | 2 | 30 | 30 |  |  | 60 | 30 | 60 | 0 | 10 | 100 |  |
|  | Designing ODC packaging | LSC/N0209 | Core | 6 | 2 | 30 | 30 |  |  | 60 | 30 | 60 | 0 | 10 | 100 |  |
| **Duration (in Hours) / Total Marks** |  |  | 6 | 90 | 90 |  |  | 180 | 90 | 180 | 0 | 30 | 300 |  |

### Optional NOS/s:

| **S. No** | **NOS/Module Name** | **NOS/Module Code & Version** *(if applicable)* | **Core/ Non-Core** | **NCrF/NSQF Level** | **Credits as per NCrF** | **Training Duration (Hours)**  | **Assessment Marks** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Th.** | **Pr.** | **OJT-Man.** | **OJT-Rec.** | **Total** | **Th.** | **Pr.** | **Proj.** | **Viva** | **Total** | **Weightage (%)** *(if applicable)* |
| 1.  | NA | - | - | - | - | - | - |  |  | - | - | - | - | - | - |  |
| **Duration (in Hours) / Total Marks** |  |  | - | - | - |  |  | - | - | - | - | - | - |  |

## Assessment - Minimum Qualifying Percentage

*Please specify any one of the following:*

**Minimum Pass Percentage – Aggregate at qualification level: 70 %** *(Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)*

**Minimum Pass Percentage – NOS/Module-wise: 70 %** *(Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)*

# Section 3: Training Related

|  |  |  |
| --- | --- | --- |
|  | **Trainer’s Qualification and experience in the relevant sector (in years)** *(as per NCVET guidelines)* | Recommended that the Trainer is certified for the Job Role: “Trainer (VET and Skills)”, mapped to the Qualification Pack: “MEP/Q2601, V2.0”. Minimum accepted score is 80% |
|  | **Master Trainer’s Qualification and experience in the relevant sector (in years)** *(as per NCVET guidelines)* | Certified for Job Role: “Packaging Designer” mapped to QP: “LSC/Q0202, v1.0”. Minimum accepted score is 80% |
|  | **Tools and Equipment Required for the Training**  | [x] Yes [ ] No (*If “Yes”, details to be provided in Annexure)* |
|  | **In Case of Revised Qualification, Details of Any Upskilling Required for Trainer** | NA |

# Section 4: Assessment Related

|  |  |  |
| --- | --- | --- |
|  | **Assessor’s Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)* | Any degree + 2 years of industrial experienceRecommended that the Assessor is certified for the Job Role: “Assessor (VET and Skills)”, mapped to the Qualification Pack: “MEP/Q2701, V2.0”. Minimum accepted score is 80% |
|  | **Proctor’s Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines) wherever applicable* | Any degree + 2 years of industrial experience Certified for Job Role: “Packaging Designer” mapped to QP: “LSC/Q0202, v1.0”. Minimum accepted score is 80% |
|  | **Lead Assessor’s/Proctor’s Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines) wherever applicable* | Any degree + 5 years of industrial experience + 1 year assessment experienceRecommended that the Assessor is certified for the Job Role: “Lead Assessor”, mapped to the Qualification Pack: “MEP/Q2701, V2.0”. Minimum accepted score is 80% |
|  | **Assessment Mode** *(Specify the assessment mode)* | Online and Offline |
|  | **Tools and Equipment Required for Assessment**  | [x]  Same as for training [ ]  Yes [ ]  No *(details to be provided in Annexure-if it is different for Assessment)*  |

# Section 5: Evidence of Need for the Qualification

*Provide Annexure/Supporting documents name.*

|  |  |
| --- | --- |
|  |  Justification of being a Traditional-Heritage Qualification in unorganised sector (Yes/No): No |
|  | Government /Industry initiatives/ requirement (Yes/No): Yes |
|  | Number of Industry validation provided: 22 |
|  | Estimated nos. of people to be trained and employed: As per Annexure: Training & Employment Details |

# Section 6: Annexure & Supporting Documents Check List

*Specify Annexure Name / Supporting document file name*

|  |  |  |
| --- | --- | --- |
|  | **Annexure:** NCrF/NSQF level justification based on NCrF level/NSQF descriptors *(Mandatory)* | Annexure |
|  | **Annexure:** List of tools and equipment relevant for qualification *(Mandatory, except in case of online course)* | Annexure |
|  | **Annexure:** Detailed Assessment Criteria *(Mandatory)* | Assessment of the Candidates on completion of the Training is a very important activity that is monitored by Logistics Sector Skill Council (LSC). It ensures sustained quality of training delivery. It also indicates to the LSC the need for any changes in training content. LSC has developed policies related to affiliation of assessment agencies and assessment process to enhance the quality of assessments and they are outlined in succeeding paragraphs.1) Guidelines on affiliation of assessment agencies:As per NSDC guidelines on affiliation of assessment agency, we are adhering the following:1. Application evaluation
2. Affiliation certificate
3. SME profile validation
4. Question bank validation
5. TOA process
6. Link through SIP

2) Assessment process: 1) The assessment process would begin by developing the correct qualitative questions for theory/practical and viva. Questions papers are submitted by Assessment Bodies (AB) to LSC for approval. 2) AB submits Assessor’s details, their experience and credentials to LSC for approval. 3) Third step in the process would be allocation of batches by LSC to AB for which LSC has shifted from a manual allocation system to automated allocation on the basis of grading system on the below mentioned parameters. i. Quality of the assessors submitted by the assessment agency. ii. Certification of the assessor by LSC basis the training of assessor’s program conducted by LSC. iii. Adherence to schedule of assessments by the assessment agencies. iv. Integrity of the assessor in conducting quality assessments. v. Quality of the question papers submitted by the assessment agencies to LSC. vi. Submission of quality documents of the assessments conducted as insisted by LSC. vii. Time of submission of the required assessment related documents to LSC for approval viii. Time of submission of results in SDMS system post approval by LSCBasis the above grading metrics the system would allocate the batches to the assessment agencies, which has brought transparency in the system of who are allocated how many batches and it is made very clear to the ecosystem that performance matters a lot. This has in turn also helped to improve the quality of the trainings as the check list of documents advised by LSC to be submitted by the assessment agencies speaks on the quality of trainings happening. |
|  | **Annexure:** Assessment Strategy *(Not Mandatory)* | 1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC 2. The assessment for the theory part will be based on knowledge bank of questions validated and approved by the SSC. 3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below) 4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on these criteria 5. To pass the Qualification Pack, every trainee should score a minimum of 70% for NSQF level 4 & above job roles and 50% for NSQF level 1 to 3 job roles. 6.In case of unsuccessful completion, the trainee may seek re-assessment on the Qualification Pack.  |
|  | **Annexure:** Blended Learning *(Mandatory, in case selected Mode of delivery is Blended Learning)* | No |
|  | **Annexure:** Multiple Entry-Exit Details *(Mandatory, in case qualification has multiple Entry-Exit)* | No |
|  | **Annexure:** Acronym and Glossary *(Optional)* | Yes |
|  | **Supporting Document:** Model Curriculum *(Mandatory – Public view)* | Yes |
|  | **Supporting Document:** Career Progression *(Optional - Public view)* | No |
|  | **Any other document you wish to submit:** | No |

## Annexure: Evidence of Level

|  |  |  |  |
| --- | --- | --- | --- |
| **NCrF/NSQF Level Descriptors** | **Key requirements of the job role/ outcome of the qualification** | **How the job role/ outcomes relate to the NCrF**/**NSQF level descriptor** | **NCrF/NSQF Level** |
| **Professional Theoretical Knowledge/Process** | The individual in the job will be able to:* Demonstrate cognitive specialized and technical skills for performing and accomplishing difficult tasks relating to data collection, analysis, designing and testing packaging.
* Possesses a range of professional and technical skills, displays clarity of knowledge and practice in a broad range of activities/ tasks involved right from choosing the right packing material to developing a working prototype.
* Skill to clearly identify the relevant tools or sometimes improvise the available tools and techniques for testing the prototype with relevant CAE software and various physical conditions.
* Very good in data collecting, analysis and draw engineering and 3D drawings. Lead design approval process.
* Follow health, safety and security procedures at the workplace.
 | The Job holder needs to possess knowledge in multidisciplinary contexts, technical skills and mechanical skills. S/he should have deeper knowledge and understanding of logistics and packing materials currently used. S/he has acquired specialized knowledge and a range of cognitive and practical skills to accomplish tasks like creating sustainable packing, identify obstacles and overcome with solutions. | 6 |
| **Professional and Technical Skills/ Expertise/ Professional Knowledge** | * Project management Skills
* Engineering Drawing skills
* Technical designing skills using CAD/ CAE software.
* Decision making skills.
* Problem solving skills.
* Cognitive, professional and technical skills
* Social Intelligence
* Adaptive skills
 | The Job holder requires advanced cognitive, professional and technical skills for performing and accomplishing complex tasks of creating 3D models using CAD software and test the same using CAE software. S/he needs to create and test working prototypes. test the models using CAE software and test. S/he needs to lead the QC and design approval process.Hence the job role qualifies for level 6 as the job holder possesses advanced technical skills for execution of above mentioned tasks. | 6 |
| **Employment Readiness & Entrepreneurship****Skills & Mind-set/Professional Skill** | * Good logical and mathematical analytical skills
* Leadership skills
* Financial and digital literacy
* Collaboration and communication
* Creative thinking and Innovation
* Complete understanding of social, political, natural and work environment
 | The job holder communicates clearly with his peers, higher officials, and clients. S/he is involved in analyzing and interpreting information and using it for decision making. S/he leads the project of design and implementation sustainable packing in existing and newbusiness. The job holder manages complex technical and professional activities.Hence this job role qualifies for Level 6. | 6 |
| **Broad Learning Outcomes/Core Skill** | * Examine and assess the implications and consequences of emerging developments and critical issues in packaging industry.
* take quick decisions to deal with workplace emergencies/ accidents/problems
* Make judgement in a range of situations by critically reviewing and consolidating evidence & risks
 | The job holder performs a specialized job role over a range of various computer applications. S/he executes several tasks on their own judgement and discretion. S/he is able identify problems and issues relating to the chosen fields of learning, and ways of future improvements.Hence the qualification falls under Level 6. | 6 |
| **Responsibility** | The individual is responsible for: * Inspecting the quality of containers received/ existing in yard.
* Coordinating with vendors and preparing work estimates.
* Getting the work estimates approved.
* Inspect the quality of container repair.
* Managing exceptions
* Excellent leadership, Communication, collaboration and organizational skills.
 | The job holder is responsible for managing activities like planning, processes, within broad parameters and with complete accountability for determining, achieving and evaluating personal and group outcomes. S/he is responsible for working on the Functional and Technical Design of the Warehouse Management System. S/he has the responsibility for working with warehouse end users to define the operation process and enabling users to consume Software.Hence the job role qualifies to be Level 6. | 6 |

## Annexure: Tools and Equipment (Lab Set-Up)

#### List of Tools and Equipment

**Batch Size:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Tool / Equipment Name** | **Specification** | **Quantity for specified Batch size** |
| 1 | Models of different packing materials |  |  |
| 2 | Computers, LLMS |  |  |
| 3 | Recyclable packing materials |  |  |
| 4 | Production drawing tools |  |  |
| 5 | CAD simulation software | CAD/ CAM/ CAE |  |
| 6 | Personal Protective Equipment (PPE)s |  |  |
| 7 | First Aid Kit and Equipment used in Medical Emergencies |  |  |
| 8 | Hazardous Materials Table (HMT) |  |  |
| 9 | Sample Hazardous goods and packing materials,  |  |  |
| 10 | Sample ODC packing materials |  |  |
| 11 | Sample fragile goods and packing materials |  |  |

#### Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Training Kit (Trainer Guide, Presentations)
2. Whiteboard, Marker, Projector, Laptop

## Annexure: Industry Validations Summary

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No** | **Organization Name** | **Representative Name** | **Designation** | **Contact Address** | **Contact Phone No** | **E-mail ID** | **LinkedIn Profile** *(if available)* |
| 1 | IMA PG India Private Limited | Farheen Kalmari  | Manager - Corporate Strategy & Planning | Plot No. R677, T. T. C Industrial Area, MIDC, Rabale, Navi Mumbai - 400071 |  |  |  |
| 2 | Allcargo Logistics Limited | Chandrakant Patil | Manager | 6th Floor, Avashya House, CST Road, Santacruz (E), Mumbai - 400098 |  |  |  |
| 3 | United Shipping Services Pvt. Ltd. | Dinesh Krishnan | Managing Director  | "United House" No. 1, 2nd Main Road, Pallavan Nagar, Maduravoyal, Chennai - 600095 |  |  |  |
| 4 | Transworld Global Logistics Solutions (India) Pvt. Ltd. | R. Venkatesan | Manager - Accounts | 3rd Floor, New No. 52, Old No. 118, Dr. Radhakrishnan Salai, Mylapore, Chennai - 600004  |  |  |  |
| 5 | 21st Century Relocations | Nirav Thakker | Partner | C - 232, Antop Hill Warehousing Complex, V.I.T Road, Wadala (East), Mumbai - 400037 |  |  |  |
| 6 | 24\*7 Logistics Private Limited | Nirav Thakker | Director | C - 232, Antop Hill Warehousing Complex, V.I.T Road, Wadala (East), Mumbai - 400037 |  |  |  |
| 7 | Global Express Multilogistics Pvt. Ltd.  | Shankar Pandurang Shinde | Managing Director  | C/12, Neelkanth Corner, 1st Floor, Sector No. 2, Plot No. 2, Sanpada (E), Navi Mumbai - 400705 |  |  |  |
| 8 | Mayur C Contractor Logistics Pvt. Ltd.  | Arshad Khan | Import Manager | Rex Chambers, Office No. 9, Gr. Floor,Walchand Hirachand Marg Ballard Estate, Mumbai - 400001 |  |  |  |
| 9 | MCC Container Lines Pvt. Ltd.  | Arshad Khan | Import Manager | 9, Rex Chambers, Ground Floor, Walchand Hirachand Marg Ballard Estate, Mumbai - 400001 |  |  |  |
| 10 | AI Logistix | Abdul Khadeer Mohammed | Founder & CEO  | D207, Sri Amethyst Duplexes,Ayyappa Nagar, KR Puram, Bangalore –560036 |  |  |  |
| 11 | Cargomen Logistics (India) Pvt. Ltd.  | Hari Prasad Kalli | AGM - HR | No. 1-10-98/33, My Project Kamadhenu, Dwaraka Das Colony, Begumpet, Hyderabad - 500016 |  |  |  |
| 12 | Kintetsu World Express (India) Pvt. Ltd. | Venkataraghavan N | Senior General Manager - HR & Admin | Brigade Magnum, B 102, 1st Floor, International Airport Road, Amruthahalli, kodigehalli Gate, Hebbal, Bangalore, Karnataka - 560092 |  |  |  |
| 13 | PDP International Pvt. Ltd.  | Avishkar Srivastava | Chief Innovation Officer | Sagar Estate, 4th Floor, 2 N. C. Dutta Sarani, Kolkata - 700001 |  |  |  |
| 14 | Active Freight Logistics Pvt. Ltd.  | V. Chandra Kumar | Chairman - Managing Director | Unit No. 101 & 106, 1st Floor, Connection Point - 'B' Block, Old Airport Exit Road, Konena Agrahara HAL Post, Bangalore - 560017 |  |  |  |
| 15 | Flyjac Logistics Pvt. Ltd.  | Madhava Priyan.M.P | VP - HR & OD | No: 25-32, Readymade Garment Complex, SIDCO Industrial Estate, Guindy, Chennai - 600032 |  |  |  |
| 16 | Om Logistics Ltd.  | Himanshu Agarwal | HR Manager | Plot No. 130, Transport Center, Ring Road, Punjabi Bagh, New Delhi - 110035 |  |  |  |
| 17 | Schenker India Pvt. Ltd.  | Jyotsana Saxena | GM - People & Organization | No. 217, Second Floor Vardhaman Crown Mall, Plot No-02, LSC Sector-19, Dwarka, New Delhi - 110075 |  |  |  |
| 18 | JBS Academy Pvt. Ltd.  | Samir J Shah | Chief Mentor & Director | Visharad Complex, B/h. Old High Court, Navrangpura, Ahmedabad - 380009 |  |  |  |
| 19 | FFAF Logistics India Pvt. Ltd.  | Karthi Baskar | Managing Director & CEO  | Brigade Opus, 5th Floor, Unit No. 501 - A, No. 70401, kodigehalli Gate, Hebbal, Bangalore, Karnataka - 560092 |  |  |  |
| 20 | Sattva Hitech & Conware Pvt. Ltd. | S. Padmanabhan | Director | Door No: new 153, 4th Floor, High Gate Building, Santhome High Rd, MRC Nagar, Raja Annamalai Puram, Chennai, Tamil Nadu - 600028 |  |  |  |
| 21 | ICC Shipping Association  | Capt. S. Subhedar | Former President ICCSA | 204, Wellington Business Park 1, Near Marol Naka Metro Station, Andheri-Kurla Road Andheri (E), Mumbai 400059 |  |  |  |
| 22 | GRNTEC Packaging & Storage Solutions | S. Mukundan | Founder & CEO  | 183, 1, Mount Poonamallee Rd, Saminathan Nagar, Swaminatha Nagar, Kattupakkam, Chennai, Tamil Nadu 600056 |  |  |  |

## Annexure: Training & Employment Details

**Training and Employment Projections:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Total Candidates** | **Women**  | **People with Disability** |
| **Estimated Training #** | **Estimated Employment Opportunities**  | **Estimated Training #** | **Estimated Employment Opportunities**  | **Estimated Training #** | **Estimated Employment Opportunities**  |
| 2023-24 | 2500 | 1250 | 350 | 175 | 400 | 200 |
| 2024-25 | 3500 | 2100 | 500 | 300 | 600 | 360 |
| 2025-26 | 5000 | 3500 | 800 | 560 | 800 | 560 |

*Data to be provided year-wise for next 3 years.*

**Training, Assessment, Certification, and Placement Data for previous versions of qualifications:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Qualification Version** | **Year** | **Total Candidates** | **Women**  | **People with Disability** |
| **Trained** | **Assessed** | **Certified** | **Placed** | **Trained** | **Assessed** | **Certified** | **Placed** | **Trained** | **Assessed** | **Certified** | **Placed** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

*Applicable for revised qualifications only, data to be provided for past 3 years.*

**List Schemes in which the previous version of Qualification was implemented:**

1.
2.

 **Content availability for previous versions of qualifications:**

 ☐ Participant Handbook ☐ Facilitator Guide ☐ Digital Content [ ]  Qualification Handbook [ ]  Any Other:

 **Languages in which Content is available:**

## Annexure: Blended Learning

**Blended Learning Estimated Ratio & Recommended Tools:**

***Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:*** [*https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf*](https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education%2C%20Training%20%26%20Skilling.pdf)

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Select the Components of the Qualification** | **List Recommended Tools – for all Selected Components** | **Offline : Online Ratio** |
|
| 1 | [ ] Theory/ Lectures - Imparting theoretical and conceptual knowledge |  |  |
| 2 | [ ] Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners |  |  |
| 3 | [ ] Showing Practical Demonstrations to the learners |  |  |
| 4 | [ ] Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training |  |  |
| 5 | [ ] Tutorials/ Assignments/ Drill/ Practice |  |  |
| 6 | [ ] Proctored Monitoring/ Assessment/ Evaluation/ Examinations |  |  |
| 7 | [ ] On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training |  |  |

##

## Annexure: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **NOS/Module Name** | **Assessment Criteria for Performance Criteria/Learning Outcomes** | **Theory Marks** | **Practical Marks** | **Project Marks** | **Viva Marks** |
| Perform packaging analysis | **PC1.** Collect data about the primary product, specifications like fragile, handling instructions etc. | 3 | 6 | - | 1 |
| **PC2.** Gather information regarding secondary packed items, e.g. weight, dimensions, etc. | 2 | 4 | - | 1 |
| **PC3**. Collate additional information about transportation, weather, storage conditions etc. | 2 | 4 | - | 1 |
| **PC4**. Procure feedback/ inputs from the warehouse in charge/ transportation in charge/ vendors/ service providers about the packing materials optimisation | 3 | **6** | - | 1 |
| **PC5**. Record all relevant information in the appropriate information systems for future use | 2 | 4 | - | 1 |
| **PC6.** Do a market analysis about the available packing materials with their advantages and disadvantages | 2 | 4 | - | - |
| **PC7.** Calculate the wastage created during the entire process from loading till delivery to the seller, considering factors like fuel, single-use plastic, void/ empty space etc. | 2 | 4 | - | 1 |
| **PC8. E**valuate the feasibility of incorporating the customer’s requirements in line with the sustainability factors | 2 | 4 | - | - |
| **PC9.** Analyse if there is any overuse of packing materials (over wrapping/ re wrapping of pallets) this will increase waste & carbon footprint | 2 | 4 | - | 1 |
| **PC10.** Forecast the cost savings from recycling/reusing packing materials and remodeled packaging design t | 3 | 6 | - | 1 |
| **PC11.** Compare and analyse the logistical cost for the return of packing materials to the origin station and cost reduction on reuse | 2 | 4 | - | - |
| **PC12.** Identify any design constraints w.r.t component, material details, e.g. component material, shear strength, ultimate tensile strength, material behavior, cutting clearance etc | 3 | 6 | - | 1 |
| **PC13.** Obtain functional and specific requirements of packing material components like die & punch material, die set material, type, parting line constraint, and ejection mark constraint | 2 | 4 | - | 1 |
| **Total Marks** | **30** | **60** | **-** | **10** |
| Prepare for designing | **PC1.** Plan the design activities and build a schedule for each task involved in the design process | 3 | 6 | - | 1 |
| **PC2.** Collate the specifications collected from various sources and inputs to incorporate into the design | 3 | 6 | - | 1 |
| **PC3.** List down the various factors included | 2 | 4 | - | 1 |
| **PC4.** Evaluate the packing material density according to the product's weight by applying the standard formula | 3 | 6 | - | 1 |
| **PC5.** Design and develop various activities with plan date and actual work date by including conceptual design & review, design review/approval from internal and external customers, presentation, verification, preparation, trial and rectification, and Validations | 3 | 6 | - | 1 |
| **PC6.** Obtain and review existing information concerning the specified design requirement, like 2D drawings and 3D models, existing samples, etc | 3 | 6 | - | 1 |
| **PC7.** Shortlist the eco-friendly materials suitable for the type of packing | 3 | 6 | - | 1 |
| **PC8.** Evaluate the design against the established criteria using appropriate evaluation methods. | 2 | 4 | - | 1 |
| **PC9.** Recommend various design options with multiple packing materials and communicate the evaluation results to the relevant personnel | 2 | 4 | - | - |
| **PC10.** Include recycling instructions in the package | 3 | 6 | - | 1 |
| **PC11.** Create a scorecard with the checkpoints and evaluate the design using the same | 3 | 4 | - | 1 |
| **Total Marks** | **30** | **60** | **-** | **10** |
| Design sustainable tertiary packaging | **PC1.** Prepare outline ideas for the designs using conceptual design work or collect similar information | 3 | 6 | - | 1 |
| **PC2.** Virtualise designs that meet the customer’s requirements, as specified in the design brief for the engineering product or process | 2 | 4 | - | 1 |
| **PC3.** Compare the designs with a competitor and improvise | 3 | 6 | - | - |
| **PC4.** Select suitable sustainable materials, e.g. paper honeycomb core, mycelium fillers, paper tapes, corrugated boards etc., according to the packing design | 2 | 4 | - | 1 |
| **PC5.** Design optional die lines and add prepress for multifunctional packing material | 2 | 4 | - | 1 |
| **PC6.** Conceptualise the layers of sustainable packing material for different products and transportation | 3 | 6 | - | 1 |
| **PC7.** Select a design template, e.g. ASTM, DIN, and ISO, that specifies the coordinates, protection angle, and title block characteristics | 2 | 4 | - | 1 |
| **PC8.** Draw a 2D engineering design with die lines for various models finalized | 3 | 6 | - | 1 |
| **PC9.** Add the isometric view and dimensions to the layout. | 2 | 4 | - | - |
| **PC10.** Specify the location, length and size of all lines and folds for prepress cast | 3 | 6 | - | 1 |
| **PC11.** Add do’s & don’ts, handling & storage instructions/ symbols as print content | 2 | 4 | - | 1 |
| **PC12.** Include all notes and additional instructions to the manufacturer | 3 | 6 | - | 1 |
| **Total Marks** | **30** | **60** | **-** | **10** |
| Create a 3D design using CAD | **PC1.** Analyse and ﬁnalize the correct modelling software tool of use. | 1 | 2 | - | 1 |
| **PC2.** Set up the modelling environment and select a suitable template/folder | 2 | 4 | - | - |
| **PC3.** Set the drawing datum at a convenient point to create a modelling template with title, ﬁle number, material, date | 1 | 2 | - | 1 |
| **PC4.** Establish a coordinate system, orientation and views as per the job | 1 | 2 | - | 1 |
| **PC5.** Create and modify entities in 3D space as per job requirement | 2 | 3 | - | - |
| **PC6.** Create 3-D views on the screen by manipulating drawing planes and inserting 3-D geometric shapes | 1 | 3 | - | - |
| **PC7.** Create swept, extruded and revolved solids in 3-D space | 2 | 3 | - | 1 |
| **PC8.** Produce sectioned models (cutting planes and crosshatching) | 1 | 3 | - | - |
| **PC9.** Use pre-drawn library ﬁles and primitives to build a 3-D model | 2 | 2 | - | - |
| **PC10.** Extract mass and area properties from a solid model | 1 | 3 | - | - |
| **PC11.** Identify and use key features of solid modelling software package to produce models | 2 | 4 | - | - |
| **PC12.** Perform drawing for solid modelling | 1 | 3 | - | - |
| **PC13.** Extract physical properties as per job requirement, including volume, mass and centre of gravity | 2 | 3 | - | 1 |
| **PC14.** Identify and use key features of the solid modelling software package to produce models. Key features: extrude, extrude cut, solid model, mirror, revolve, wireframe, radius/chamfer, hide, rib, rectangular pattern, ﬁllet, cut/remove, circular pattern, shell, development view, motion analysis, animation, deﬁning material property, exploded views | 1 | 3 | - | - |
| **PC15.** Consider the following factors as appropriate to the model produced. Factors: function, cost, physical space, quality, the product’s lifetime, operating environment, manufacturing method, tolerances, interfaces, ergonomics, clearance, safety, materials, aesthetics, and applying rendering techniques. | 1 | 2 | - | 1 |
| **PC16.** Use the pan, isometric and zoom CAD operations to highlight design areas in the modelling environment. | 1 | 2 | - | - |
| **PC17.** Include the printing matter, e.g. labels, branding, speciﬁcations, handling, assembling / recycling instructions etc., to be printed on the packing material. | 1 | 2 | - | 1 |
| **PC18.** Modify parts in the package assembly environment using the following features: constrained parts and assemblies, straight lines, insertion of standard components, hidden detail, dimensions, symbols and abbreviations, hatching and shading, angular surfaces, curved surfaces, parts lists, text, circles or ellipses, material colour, surface texture | 1 | 2 | - | - |
| **PC19.** Create 3-D drawings incorporating section views with all necessary annotation | 1 | 2 | - | - |
| **PC20.** Build a model for export to the following manufacturing systems. Manufacturing systems: DNC (Direct Numerically controlled) /CNC (Computer Numerically Controlled) machines; 3D printer; other speciﬁc systems | 1 | 2 | - | 1 |
| **PC21.** Construct models which comply with organisational guidelines; statutory regulations and codes of practice; CAD software standards; national and international standards | 1 | 2 | - | 1 |
| **PC22.** Reconﬁrm with relevant personnel that the model is as per job speciﬁcations and contains all relevant information | 1 | 2 | - | - |
| **PC23.** Save the models in the appropriate ﬁle type and location | 1 | 2 | - | - |
| **PC24.** Generate hard copies of the ﬁnished models with suﬃcient detail to allow production | 1 | 2 | - | 1 |
| **Total Marks** | **30** | **60** | **-** | **10** |
| Develop a working prototype | **PC1.** Analyse and ﬁnalise the correct CAE software tool to use. | 1 | 2 | - | 1 |
| **PC2.** Export and Import ﬁles as per the required format in CAE | 1 | 2 | - | - |
| **PC3.** Collate the diﬀerent parameters for analysis like transport, weight, height, pressure, weather etc. | 1 | 2 | - | 1 |
| **PC4.** Design the mesh ﬁles according to diﬀerent parameter combinations | 2 | 4 | - | - |
| **PC5.** Identify the load and boundary parameters for the CAD model | 1 | 2 | - | 1 |
| **PC6.** Simulate, validate and optimise the result. | 1 | 2 | - | - |
| **PC7.** Create a macro ﬁle and diﬀerent types of graphs for the analysis | 1 | 2 | - | 1 |
| **PC8.** Generate the report and publish the graphs | 2 | 4 | - | - |
| **PC9.** Source the materials required for constructing the prototype | 1 | 3 | - | 1 |
| **PC10.** Procure the testing product with actual weight and dimensions | 1 | 2 | - | - |
| **PC11.** Follow the step-by-step process for assembling the packing material | 1 | 3 | - | 1 |
| **PC12.** Pack the product with the planned layers according to the quality assessment plan. | 2 | 2 | - | - |
| **PC13.** Create multiple prototypes to use for various testing. | 1 | 2 | - | - |
| **PC14.** Devise an SOP with the steps and procedures to follow during packing. | 1 | 2 | - | 1 |
| **PC15.** Get the prototype and SOP QA validated by the relevant department and authorities. | 2 | 4 | - | - |
| **PC16.** Record all the proceedings of the validations for future use. | 2 | 4 | - | - |
| **PC17.** Prepare the documents required for UN CERTIFICATION | 2 | 2 | - | 1 |
| **PC18.** Collate the QA results and simulation test results | 1 | 3 | - | - |
| **PC19.** Discuss and conﬁrm the type of certiﬁcation needed for the packaging. | 1 | 3 | - | 1 |
| **PC20.** Visit [https://www.iip-in.com/research-and-development/un-certiﬁcation.aspx](http://www.iip-in.com/research-and-development/un-certi%EF%AC%81cation.aspx) | 2 | 4 | - | - |
| **PC21.** Register for UN CERTIFICATION under the relevant category | 2 | 4 | - | - |
| **PC22.** Submit the documents requested | 1 | 2 | - | 1 |
| **Total Marks** | **30** | **60** | **-** | **10** |
| Follow health, safety and security procedures at workplace | **PC1.** Comply with safety regulations and procedures to avoid ﬁre hazards, biohazards, etc. | 2 | 4 | - | - |
| **PC2.** Wear all safety equipment including protective gear, helmets etc., at relevant bay areas. | 2 | 4 | - | - |
| **PC3.** Follow organization procedures with respect to documentation. | 2 | 3 | - | - |
| **PC4.** Recognise unsafe conditions and safety practices at the workplace and report it to concerned authority. | 2 | 4 | - | - |
| **PC5.** Keep the workplace organized. | 1 | 4 | - | - |
| **PC6.** Ensure that the work area and supplies are cleaned regularly. | 2 | 4 | - | - |
| **PC7.** Comply with data safety regulations of the organisation. | 2 | 4 | - | - |
| **PC8.** Maintain clear worktable area. | 1 | 4 | - | - |
| **PC9.** Maintain personal hygiene and wash hands regularly using soap and water or alcohol-based sanitiser. | 2 | 5 | - | - |
| **PC10.** Undertake periodical preventive health check ups. | 1 | 4 | - | - |
| **PC11.** Participate in ﬁre drills. | 2 | 4 | - | - |
| **PC12.** Follow 5S at workplace. | 1 | 4 | - | - |
| **PC13.** Act immediately during emergency situations and move to safety. | 2 | 3 | - | - |
| **PC14.** Perform rescue activity according to instructions received and assist those in need. | 2 | 4 | - | - |
| **PC15.** Provide ﬁrst aid to aﬀected victims e.g., in case of bleeding, burns, choking, electric shock, poisoning etc. | 2 | 4 | - | - |
| **PC16.** In case of ﬁre, follow ﬁre safety practices | 1 | 3 | - | - |
| **PC17.** Perform the steps involved in ﬁre safety drill. | 2 | 4 | - | - |
| **PC18.** Follow procedures to rescue victim of ﬁre without endangering self. | 1 | 4 | - | - |
| **Total Marks** | **30** | **70** | **-** | **-** |
| Maintain and monitor integrity and ethics in operations | **PC1.** Refrain from indulging in corrupt practices | 2 | 5 | - | - |
| **PC2.** Protect customers information and ensure acquired information is not used for personal advantage | 3 | 6 | - | - |
| **PC3.** Protect data and information related to business or commercial decisions | 2 | 5 | - | - |
| **PC4.** Sensitise the work force towards ethical behaviour in work place and performing job with integrity | 3 | 6 | - | - |
| **PC5.** Conduct regular reviews and check reports for unethical behaviour and corrupt practices | 2 | 5 | - | - |
| **PC6.** Consult senior management when in an ethical dilemma | 2 | 6 | - | - |
| **PC7.** Report promptly all violations of code of ethics | 2 | 5 | - | - |
| **PC8.** Dress up and conduct in a professional manner | 2 | 5 | - | - |
| **PC9.** Communicate with clients and stakeholders in a soft and polite manner | 3 | 6 | - | - |
| **PC10.** Follow etiquettes | 2 | 5 | - | - |
| **PC11.** check that that documentation with respect to operations is up to date and in accordance to the regulations | 2 | 5 | - | - |
| **PC12.** coordinate with regulatory authorities and assist in inspections and clearances | 3 | 6 | - | - |
| **PC13.** report any issues with regulatory compliance | 2 | 5 | - | - |
| **Total Marks** | **30** | **70** | **-** | **-** |
| Employability Skills (90 Hours) | *Introduction to Employability Skills* | **1** | **1** | **-** | **-** |
| **PC1.** Understand the signiﬁcance of employability skills in meeting the current job market requirement and future of work | - | - | - | - |
| **PC2.** Identify and explore learning and employability relevant portals | - | - | - | - |
| **PC3.** Research about the diﬀerent industries, job market trends, latest skills required and the available opportunities | - | - | - | - |
| *Constitutional values – Citizenship* | **1** | **1** | **-** | **-** |
| **PC4.** Recognize the signiﬁcance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc. | - | - | - | - |
| **PC5.** Follow environmentally sustainable practices | - | - | - | - |
| *Becoming a Professional in the 21st Century* | **1** | **3** | **-** | **-** |
| **PC6.** Recognize the signiﬁcance of 21st Century Skills for employment | - | - | - | - |
| **PC7.** Practice the 21st Century Skills such as Self- Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life | - | - | - | - |
| **PC8.** Adopt a continuous learning mindset for personal and professional development | - | - | - | - |
| *Basic English Skills* | **3** | **4** | **-** | **-** |
| **PC9.** Use basic English for everyday conversation in diﬀerent contexts, in person and over the telephone | - | - | - | - |
| **PC10.** Read and understand routine information, notes, instructions, mails, letters etc. written in English | - | - | - | - |
| **PC11.** Write short messages, notes, letters, e-mails etc. in English | - | - | - | - |
| *Career Development & Goal Setting* | **1** | **2** | **-** | **-** |
| **PC12.** Identify career goals based on the skills, interests, knowledge, and personal attributes | - | - | - | - |
| **PC13.** Prepare a career development plan with short- and long-term goals | - | - | - | - |
| *Communication Skills* | **2** | **2** | **-** | **-** |
| **PC14.** Follow verbal and non-verbal communication etiquette while communicating in professional and public settings | - | - | - | - |
| **PC15.** Use active listening techniques for eﬀective communication | - | - | - | - |
| **PC16.** Communicate in writing using appropriate style and format based on formal or informal requirements | - | - | - | - |
| **PC17.** Work collaboratively with others in a team | - | - | - | - |
| *Diversity & Inclusion* | **1** | **1** | **-** | **-** |
| **PC18.** Communicate and behave appropriately with all genders and PwD | - | - | - | - |
| **PC19.** Escalate any issues related to sexual harassment at workplace according to POSH Act | - | - | - | - |
| *Financial and Legal Literacy* | **2** | **3** | **-** | **-** |
| **PC20.** Identify and select reliable institutions for various ﬁnancial products and services such as bank account, debit and credit cards, loans, insurance etc. | - | - | - | - |
| **PC21.** Carry out oﬄine and online ﬁnancial transactions, safely and securely, using various methods and check the entries in the passbook | - | - | - | - |
| **PC22.** Identify common components of salary and compute income, expenses, taxes, investments etc | - | - | - | - |
| **PC23.** Identify relevant rights and laws and use legal aids to ﬁght against legal exploitation | - | - | - | - |
| *Essential Digital Skills* | **3** | **5** | **-** | **-** |
| **PC24.** Operate digital devices and use their features and applications securely and safely | - | - | - | - |
| **PC25.** Carry out basic internet operations by connecting to the internet safely and securely, using the mobile data or other available networks through Bluetooth, Wi-Fi, etc. | - | - | - | - |
| **PC26.** Display responsible online behaviour while using various social media platforms | - | - | - | - |
| **PC27.** Create a personal email account, send and process received messages as per requirement | - | - | - | - |
| **PC28.** Carry out basic procedures in documents, spreadsheets and presentations using respective and appropriate applications | - | - | - | - |
| **PC29.** Utilize virtual collaboration tools to work eﬀectively | - | - | - | - |
| *Entrepreneurship* | **2** | **3** | **-** | **-** |
| **PC30.** Identify diﬀerent types of Entrepreneurship and Enterprises and assess opportunities for potential business through research | - | - | - | - |
| **PC31.** Develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion | - | - | - | - |
| **PC32.** Identify sources of funding, anticipate, and mitigate any ﬁnancial/ legal hurdles for the potential business opportunity | - | - | - | - |
| *Customer Service* | **1** | **2** | **-** | **-** |
| **PC33.** Identify diﬀerent types of customers and ways to communicate with them | - | - | - | - |
| **PC34.** Identify and respond to customer requests and needs in a professional manner | - | - | - | - |
| **PC35.** Use appropriate tools to collect customer feedback | - | - | - | - |
| **PC36.** Follow appropriate hygiene and grooming standards | - | - | - | - |
| *Getting ready for apprenticeship & Jobs* | **2** | **3** | **-** | **-** |
| **PC37.** Create a professional Curriculum vitae (Résumé) | - | - | - | - |
| **PC38.** Search for suitable jobs using reliable oﬄine and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively | - | - | - | - |
| **PC39.** Apply to identiﬁed job openings using oﬄine/online methods as per requirement | - | - | - | - |
| **PC40.** Answer questions politely, with clarity and conﬁdence, during recruitment and selection | - | - | - | - |
| **PC41.** Identify apprenticeship opportunities and register for it as per guidelines and requirements | - | - | - | - |
| **Total Marks** | **20** | **30** | **-** | **-** |
| Designing hazardous goods packaging | **PC1.** Gather full product speciﬁcations and handling instructions, including type, class, packing group of product, and quantity of dangerous goods with MSDS. | 2 | 3 | - | - |
| **PC2.** Collect details of primary/ secondary packaging done and the protective measures used, if any. Also, get transport details like the destination, mode of transport, route, duration of transit, weather, packing requirements from the consignee/ carrier etc. | 2 | 4 | - | 1 |
| **PC3.** In case of export, check if the destination country has any packaging restrictions like fumigation certiﬁcate, UN certiﬁcation, IATA certiﬁcation, etc., according to the packing group into which the product falls. | 2 | 4 | - | - |
| **PC4.** Do detailed research about the obstacles often faced by these goods during transit. | 1 | 3 | - | 1 |
| **PC5.** Perform analysis about possible damage scenarios and methods to overcome them. | 2 | 4 | - | - |
| **PC6.** Evaluate solutions for impediments by adding precautionary, protective elements, e.g. Desiccants, to protect from container rain. | 2 | 4 | - | 1 |
| **PC7.** List down the non-reactive, sustainable packing materials which are allowed according to the packing group and classiﬁcation of the product. | 2 | 4 | - | 1 |
| **PC8.** Prepare design outlines considering the collated data. | 2 | 4 | - | 1 |
| **PC9.** Avoid empty space and voids to a maximum to prevent a collision. | 2 | 4 | - | 1 |
| **PC10.** Design the layers of packing needed. | 2 | 4 | - | - |
| **PC11.** Evaluate the options and select suitable and approved sustainable cushioning and tertiary packing materials attending to the analysis factors. | 2 | 4 | - | 1 |
| **PC12.** Draw the production drawing using a standard template. | 1 | 3 | - | 1 |
| **PC13.** Add dos & don’ts, handling instructions/ symbols to the printing content. | 1 | 3 | - | 1 |
| **PC14.** Follow the Package ID Table and add UN markings according to Hazardous Materials Table (HMT) to the print content. | 2 | 2 | - | - |
| **PC15.** Create a 3D model using CAD and test the model using CAE software. | 2 | 3 | - | - |
| **PC16.** Build the prototype and perform trial runs under various parameters. | 1 | 3 | - | 1 |
| **PC17.** Get QA validation/ certiﬁcation from the relevant department and authorities as applicable. | 2 | 4 | - | - |
| **Total Marks** | **30** | **60** | **-** | **10** |
| Designing Fragile goods packaging | **PC1.** Gather full product speciﬁcations and handling instructions. | 2 | 4 | - | - |
| **PC2.** Collect details of primary/ secondary packaging like the weight, dimensions etc. and the transport details like the destination, mode of transport, route, dimensions of the vehicle intended, duration of transit, weather, and packing requirements from the insurance company/ carrier/ consignee etc. like adding tilt meter, shock meter. | 2 | 4 | - | - |
| **PC3.** In case of export, check if the destination country has any packaging restrictions like fumigation requirements. | 2 | 4 | - | 1 |
| **PC4.** Do a detailed analysis of the obstacles often faced by goods during transit. | 2 | 3 | - | 1 |
| **PC5.** Perform analysis about possible damage circumstances and preventive measures. | 2 | 4 | - | 1 |
| **PC6.** Evaluate solutions to overcome impediments by adding precautionary, protective elements, e.g. Desiccants to protect from container rain. | 2 | 4 | - | - |
| **PC7.** List down the layers of sustainable packing materials required. | 2 | 4 | - | 1 |
| **PC8.** Prepare design outlines considering the collated data. | 2 | 4 | - | - |
| **PC9.** Avoid empty space and voids to the maximum to prevent a collision. | 2 | 4 | - | 1 |
| **PC10.** Design the layers of packing needed. | 2 | 4 | - | - |
| **PC11.** Evaluate the options and select suitable sustainable cushioning and tertiary packing materials attending to the factors of analysis. | 2 | 4 | - | 1 |
| **PC12.** Draw the production drawing using a standard template. | 2 | 4 | - | - |
| **PC13.** add dos & don’ts, handling instructions/ symbols to the printing content. | 2 | 4 | - | 1 |
| **PC14.** create a 3D model using CAD and test the model layer-wise using CAE software. | 2 | 4 | - | - |
| **PC15.** build the prototype and perform trial runs under various parameters. | 1 | 3 | - | 2 |
| **PC16.** get QA validation from the relevant department and authorities as applicable. | 1 | 2 | - | 1 |
| **Total Marks** | **30** | **60** | **-** | **10** |
| Designing ODC packaging | **PC1.** Collate complete information about the shipment to be transported like the weight, dimensions, product type, packing requirements from consignee/ carrier etc. | 3 | 5 | - | 1 |
| **PC2.** Collect the transport details like the origin, destination, mode of transport, route, dimensions of the vehicle intended, duration of transit, weather etc. | 2 | 5 | - | - |
| **PC3.** In case of export, check if the destination country has any packaging restrictions like fumigation requirements. | 2 | 4 | - | 1 |
| **PC4.** Do a detailed analysis of the obstacles often faced by goods during transit. | 2 | 4 | - | - |
| **PC5.** Evaluate solutions to overcome impediments by adding precautionary, protective materials, e.g. lashing and strapping. | 3 | 6 | - | 1 |
| **PC6.** List down the layers of sustainable packing materials required. | 2 | 4 | - | 1 |
| **PC7.** Prepare design outlines considering the collated data. | 2 | 4 | - | 1 |
| **PC8.** Evaluate the options and select suitable sustainable materials attending to the factors collected. | 3 | 6 | - | 1 |
| **PC9.** Draw the production drawing using a standard template. | 2 | 4 | - | 1 |
| **PC10.** Create a 3D model using CAD and test the model using CAE software. | 3 | 6 | - | 1 |
| **PC11.** Build the prototype and perform trial runs under various parameters. | 2 | 4 | - | 1 |
| **PC12.** Add dos & don’ts, handling instructions/ symbols to the printing content. | 2 | 4 | - | - |
| **PC13.** Get QA validation from the relevant department and authorities. | 2 | 4 | - | 1 |
| **Total Marks** | **30** | **60** | **-** | **10** |
| **Grand Total** | **320** | **650** |  | **80** |

## Annexure: Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

*Mention the detailed assessment strategy in the provided template.*

1. Assessment System Overview:

* SSC will receive batches through SIP or email to schedule assessment.
* Batches will be assigned to the NCVET affiliated assessment agencies for conducting the assessment.
* Assessment agencies send the assessment confirmation and procedure to TP/TC looping SSC.
* Assessment agency deploys the ToA certified Assessor for executing the assessment.
* SSC will monitor the assessment process & records.

2. Testing Environment:

* Check the Assessment location, date and time is same as SIP data.
* Specified equipment’s must be available to facilitate assessment.
* Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.

3. Assessment Quality Assurance levels/Framework:

* Question bank is created by the Subject Matter Experts (SME) and are verified by the other SME of LSC.
* Questions are mapped to the specified assessment criteria.
* Assessor must be ToA certified.
* Mock test/Self assessment will be conducted during training through LSC softwares.

4. Types of evidence or evidence-gathering protocol:

* Time-stamped & geotagged reporting of the assessor from assessment location
* Centre photographs with signboards and scheme specific branding
* 21 points check list must be adhered by both AA and assessor.

5. Method of verification or validation:

* LSC will validate the evidence and results through LSC portal.
* Validation will be candidate wise scrutiny.

6. Method for assessment documentation, archiving, and access

* Hard copies of the documents are stored by AA for certain years.
* Softcopies of evidences will be stored in LSC portal.

**On the Job(OJT assessment applicable):**

1. The candidate must score 60% to successfully complete the OJT.
2. Tools of Assessment that will be used for assessing whether the candidate is having desired skills and etiquette of dealing with customers, understanding needs & requirements, assessing the customer and perform Soft Skills effectively:

• Videos of Trainees during OJT

1. Assessment of each Module will ensure that the candidate is able to:
* Effective engagement with the customers
* Understand the working of various tools and equipment.

## Annexure: Acronym and Glossary

#### Acronym

|  |  |
| --- | --- |
| **Acronym**  | **Description** |
| **AA** | Assessment Agency |
| **AB** | Awarding Body |
| **ISCO** | International Standard Classification of Occupations |
| **NCO** | National Classification of Occupations |
| **NCrF** | National Credit Framework |
| **NOS** | National Occupational Standard(s) |
| **NQR** | National Qualification Register |
| **NSQF** | National Skills Qualiﬁcations Framework |
| **OJT** | On the Job Training |

#### Glossary

|  |  |
| --- | --- |
| **Term** | **Description** |
| **National Occupational Standards (NOS)** | NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do. |
| **Qualification** | A formal outcome of an assessment and validation process which is obtained when acompetent body determines that an individual has achieved learning outcomes to given standards |
| **Qualification File**  | A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification. |
| **Sector** | A grouping of professional activities on the basis of their main economic function, product, service or technology. |
| **Long Term Training** | Long-term skilling means any vocational training program undertaken for a year and above. <https://ncvet.gov.in/sites/default/files/NCVET.pdf>  |