



GOVERNMENT OF TAMILNADU

DIRECTORATE OF TECHNICAL EDUCATION, CHENNAI-25

STATE PROJECT COORDINATION UNIT

(Established under Canada India Institutional Cooperation Project)

CURRICULUM

| | |
|---|---|
| Course Name | FOOTWEAR MANUFACTURING |
| Course Code | LT/2020/002 |
| Course Duration | 320 Hours |
| Minimum Eligibility Criteria and Pre-requisites(if any) | 10 th /+2/Diploma/Graduates |
| Course Objectives | Training module has been designed to provide the participants <ul style="list-style-type: none"> • Understanding about cutting,closing,lasting & Finishing • Formulate operational sequences • Ensure quality parameters • Ensure production deliverables • Perform rectifications / modifications • Coordinate with (or) Coordinate the work/ activities/ operations of Product development cell in footwear industry • Manage work force |
| Course Outcomes | At the end of training, the participants will be able to <ul style="list-style-type: none"> • Gain knowledge on Pattern making • Gain knowledge on basic styles of footwear • Gain knowledge on construction techniques of footwear • Know how to fabricate footwear |
| Expected Job Roles | Production supervisor in various departments like cutting, closing, bottoming & finishing in footwear industry |

| TEACHING AND SCHEME OF EXAMINATION | | | | | | |
|------------------------------------|------------------------|-----------|-----|------------------|-----|-------------------------|
| Course Code | Course Name | Hours | | Assessment Marks | | Duration of Examination |
| | | | | Min | Max | |
| LT/2020/002 | FOOTWEAR MANUFACTURING | Theory | 60 | 10 | 20 | 3 Hours |
| | | Practical | 260 | 40 | 80 | |
| | | Total | 320 | 50 | 100 | |

LT/2020/002– FOOTWEAR MANUFACTURING

DETAILED SYLLABUS

| Unit No. | Modules | No. of Hours Theory / Practical |
|---------------------------------------|--|------------------------------------|
| | Theory | 60 Hours |
| 1 | Anatomy and Sizing System Foot anatomy – Arches of foot -Foot parameters-Foot injury-foot deformity-Last for footwear making–sizing systems-English sizing system-European Sizing system –Basic styles of footwear-Tools and materials requirements for footwear fabrication-Selection of leather for Upper & Lining Preparation-Accessories for footwear fabrication. | 20 |
| 2 | Pattern making Introduction to pattern making- clicking- Pre closing operations- - Splitting, Skiving, cementing, Folding, Edge treatments, etc.- Various treatment of upper closing-closing operation-Types of seams-Principle and process of drafting-Types of lasting-Advanced lasting techniques. | 20 |
| 3 | Construction and Finishing Types of footwear construction viz. Cemented, Good year welted, Veldschoten, stobbe, Moccasin and moulded shoes etc-Process and sequence of operations in cementing construction - Finishing techniques –Basic footwear machines-Lasting machines, Moulding machines & finishing machines. | 20 |
| II | Practical | 260 Hours |
| | 1. Practice on Cutting/Clicking Operations. | 35 |
| | 2. Practice on Pre closing Operations | 35 |
| | 3. Practice on Shoe upper making and Lasting | 34 |
| | 4. Practice on sandal/Chapels making | 34 |
| | 5. Practice on Court shoes making. | 34 |
| | 6. Practice on Derby shoes making. | 34 |
| | 7. Practice on Oxford shoes making | 34 |
| | 8. Practice on Shoe finishing | 20 |
| Total Theory / Practical Hours | | 60/260 |
| Total Hours | | 320 |

HARDWARE REQUIREMENT

| S.NO | LIST OF TOOLS /EQUIPMENTS |
|------|--|
| 1. | Swing Arm Clicking Press and Cutting tools /Accessories |
| 2. | Pre Closing machines(Splitting/Skiving/Stamping/Eyeleting) |
| 3. | Sewing machines(Flat Bed/Post Bed/Cylinder Bed) |
| 4. | Insole Pressing Machine |
| 5. | Counter Moulding Machine |
| 6. | Hand Lasting Jack and Tools |
| 7. | Pounding Machine |
| 8. | Finishing Machines |

SOFTWARE REQUIREMENT

| |
|-----|
| Nil |
|-----|

| S.NO | NAME OF THE BOOK | AUTHOR | PUBLISHER |
|------|---|------------------|------------------------------|
| 1 | Manual of Shoe making | R.G. Miller | Clarks Ltd., Publications |
| 2 | Text Book of Footwear Manufacture | J.H. Thornton | The National Trade Press Ltd |
| 3 | Know Your Footwear | B. Venkatappaiah | NICLAI Publications |
| 4 | The Complete Hand Book of footwear making | A.Luximon | Woodhead |

ASSESSMENT AND CERTIFICATION

| S.No | Criteria for assessment |
|------|--|
| 1. | A trainee will be assessed based on the performance in End Examination for Theory and Practical conducted internally in the Project Polytechnic College for a duration of 3 hours |
| 2. | A trainee must have 75% of attendance to appear for End examination in Theory and Practical. |
| 3. | The assessment for theory part will be based on the marks scored in the end examination on the knowledge bank of questions (1 word/objective type questions) |
| 4. | The assessment for practical part will be based on the marks scored in the end examination conducted by the Project Polytechnic and assessed by the Examiners approved by Strategic Plan Implementation Committee (SPIC) of the project polytechnic. |
| 5. | The criteria for successful completion of training is every trainee should score 50% of marks in theory and practical examination. |
| 6. | On successful completion of training , certificate will be issued to the participants by the Directorate of Technical Education through the Project Polytechnic. |

END EXAMINATION

ALLOCATION OF MARKS

| S.No | Description | Max.Marks |
|--------------------|--------------------------------|------------|
| 1. | Theory Examination | 20 |
| 2. | Practical Examination | |
| | a)Designing and Pattern making | 12 |
| | b)Cutting | 12 |
| | c)Pre closing and closing | 12 |
| | d)lasting and Finishing | 14 |
| | e)Result | 10 |
| | f)Record | 20 |
| Total Marks | | 100 |

THEORY MODEL QUESTION PAPER
LT/2020/002- FOOTWEAR MANUFACTURING

(Maximum Marks: 20)

(N.B: Answer any Twenty questions)

20x1= 20 Marks

1. How many bones are present in human foot?
2. Write down the functions of arch.
3. Write down the causes of foot injury.
4. Name the various material used for last making.
5. Write note on style lines in upper standard.
6. Write down the important of lining in footwear.
7. What are accessories required for footwear making?
8. What is clicking operation in footwear making?
9. What is toe puff?
10. Write a note on pre closing operation.
11. Mention few important construction techniques of shoe making.
12. Write note on treeing operation.
13. Write note on shoe sizing system.
14. Write down the types of seams.
15. Write down the objectives of closing operations.
16. Write note on seat lasting.
17. Draw a cross sectional view of cemented construction
18. Name the material used in finishing process.
19. Write a note on drafting process in pattern making.
20. Write down the types of Boot.
21. Write a note on moulded shoes.
22. Write a note on cemented construction.
23. Name the reinforcement material used in footwear fabrication.
24. Write a note on lasting allowances.
25. Write down the uses of shanks in footwear making.