**FDDI PATNA**

**BIHAR SKILL DEVELOPMENT MISSION – 2017-18**

**SIX MONTH PROGRAM**

It’s Objective, learning outcomes, Modules, assessments and material list

**CERTIFICATE PROGRAM IN FOOTWEAR TECHNOLOGY & MANAGEMENT**

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| Submitted to **:-** **INDUSTRY DEPARTMENT, BIHAR GOVERNMENT**  | Submitted By **:- Footwear Design & Development Institute Patna** |
| Session – 2017-18 |

 **Certificate Course in Footwear Technology and Management**

* Course Id- CFTM
* Candidate Eligibility : **12TH Passed**
* Course Duration: Six Months

**CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE**

**Name and address of submitting body:**

**FDDI, AMHARA BIHTA**

**Ministry of Commerce and Industry**

**Name and contact details of individual dealing with the submission**

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**List of documents submitted in support of the Qualifications File**

1. Curriculum Document

**SUMMARY**

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| **Qualification Title**  | **Certificate in Footwear Technology and Management** |
| **Qualification Code**  | **CFTM** |
| **Nature and purpose of the qualification**  | **Nature****6 months Certificate Course in Footwear technology and Management****Purpose****Explain the basic elements, features of designs and styles of footwear.****To make a complete shoe with hand lasting (selected design) for sample development.**. |
| **Body/bodies which will award the qualification** | **Footwear Design and Development Institute** |
| **Occupation(s) to which the qualification gives access** | **Footwear technology** |
| **Entry requirements and / or recommendations** | **12th PASSED** |

1. **OBJECTIVE OF THE COURSE: -**

This module comprises of full shoe making techniques which includes designing, pattern cutting, closing, and drafting methods with hand lasting techniques. It also enables students to understand the fundamental concepts of footwear as a product, structure and basic parts of the foot, different sizing systems, various styles of shoe , lasts and its types, masking methods , to prepare mean form , patterns of different styles .

It attempts to introduce the fundamentals concepts of hand cutting and machine cutting, types of blades, understanding different types of dies used for the machine cutting and its storage. Under this course the student will understand to operate swing arm machine, splitting machine, stamping machine with its parts and functions.

Further this course attempts to introduce the fundamental concepts of sewing machine control and adjustment process, top threading, bottom threading & bobbin binding and needle changing. The students will also be taught about the relationship between machine, needle and material. The students will know about the different types of threads, consumption of thread, different types of adhesives and different types of reinforcements used in upper, they will stitch a full upper themselves (for a selected design) .

At the next level of the course the student will be introduce to the fundamental concepts of carrying out the preparation activities, Drafting methods , performing lasting operations, different methods and sequence of operations for hand lasting, quality check points for each operation.

At the final stage the student shall be able to prepare a complete shoe by self designed patterns, transforming cut patterns of material (leather/synthetic) into a full upper, shaping it with the bottom profile with hand lasting methods by pasting sole.

1. **LEARNING OUTCOMES :-**
2. Explain the basic elements, features of designs and styles of footwear.
3. Identify the last based upon the fashion, design and constructions.
4. Mask the last according to work specification
5. Develop the mean form for the selected last.
6. Develop the upper standard, lining standard, insole, toe puff and counter stiffener standard.
7. Develop the variations of the basic styles.
8. Prepare a design (men/ladies) for further sample development.
9. Brief Introduction to the cutting/clicking department.
10. Brief over various types of blades.
11. To cut mix pattern of synthetic exercise.
12. To operate swing arm machine, splitting, stamping machine knowledge of parts & functions.
13. To understand methods of dies storages and its types.
14. Brief study of CG leather, quality areas, lines of tightness & stretchiness in hide/skin.
15. Brief introduction to nesting, layouts of cow sides (D/O) on brown paper by tracking methods.
16. Cut patterns of full upper, lining (selected design) for further sample development.
17. Know about the safety points, good working habits, bench layout and adjustment of sewing machines
18. Operate the flat bed, post bed, cylinder arm machines and their parts & functions
19. Know about the different types of needles used in different types of machines.
20. Know about the different types of adhesives, needles.
21. Stitch different types of Synthetic exercises with standards and quality check points.
22. Stitch complete upper (selected design) for further sample development.
23. Understand the concepts and fundamentals of hand lasting, its tools.
24. Understand the different methods of lasting and method of producing footwear.
25. Know about the hand lasting and the methods of attaching lining, insole, toe-puff and counter stiffener
26. To make a complete shoe with hand lasting (selected design) for sample development.
27. **MODULE- SIX MONTHS (CERTIFICATE PROGRAM IN FOOTWEAR TECHNOLOGY AND MANAGEMENT)**

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| **DURATION :- SIX MONTHS****CERTFICATE PROGRAM IN FOOTWEAR TECHNOLOGY AND MANAGEMENT** |
| **MODULE CODE & NAMES**  | **Code :- BSDM 2017-18****Module :-** BSDM (Advance operative training of footwear technology) |
| **RATIONALE & OBJECTIVE OF THE MODULES**  | This module enables trainers to understand the fundamental concepts of footwear as a product, going through each operations from last selection to pattern cutting, cutting of component of each part of upper and lining on the material (leather/synthetic etc), assembling of each cut component into a full upper with the help of sewing machines, assembling bottom components, drafting techniques to hand lasting process will help them to understand a full shoe making operations. |
| **MODULE COMPETENCE** | At the final stage the student shall be able to prepare a complete shoe by self designed patterns, transforming cut patterns of material (leather/synthetic) into a full upper, shaping it with the bottom profile with hand lasting methods by pasting sole. |
| **MODE OF DELIVERY** | Practical and theoretical  |
|  |
| **Sl.N** | **ELEMENTS/TOPICS** | **PERIOD** | **DAYS** |
|  |
| **1** | **BASIC OF FOOTWEAR TECHNOLOGY** | 20 DAYS |
|  |  | 1.1 Styles /Types of footwear |
|  |  | 1.2 Types of lasts  |  |  |
|  |  | 1.3 Selection of last |  |  |
|  |  | 1.4 Material used in footwear  |  |  |
|  |  | 1.5 Process involved in making footwear  |  |  |
|  |  | 1.5 Flow chart of footwear making process |  |  |
|  |  | 1.6 Machines used in making footwear  |  |  |
|  |  |  |  |  |
| **2** | **ADVANCE DESIGN TECHNIQUES** |  |  |
|  |  | 2.1 Develop making | 20 DAYS |
|  |  | 2.2 Construction of mean form  |
|  |  | 2.3 Construction of upper / lining standard  |  |  |
|  |  | 2.4 Develop basic style |  |  |
|  |  | 2.5 Develop full shoe patterns with standard |  |  |
|  |  |  |  |  |
| **3** | **ADVANCE CUTTING OPERATIVE TECHNIQUES** |  |  |
|  |  | 3.1 Introduction to cutting technology  | 20 DAYS |
|  |  | 3.2 Cutting methods / Nesting / Interlocking  |
|  |  | 3.3 Mix pattern vinyl cutting exercise  |  |  |
|  |  | 3.4 Tools used in hand cutting – Introduction |  |  |
|  |  | 3.5 Hand cutting of upper and lining patterns |  |  |
|  |  | 3.6 Splitting of cut components  |  |  |
|  |  | 3.7 Stamping of all component  |  |  |
|  |  | 3.8 Quality check parameter |  |  |
|  |  |  |  |  |
| **4** | **ADVANCE CLOSING OPERATIVE TECHNIQUES** |  |  |
|  |  | 4.1 Prepare sequence of operation of designs  | 20 DAYS |
|  |  | 4.2 Assembling material for fitting  |
|  |  | 4.3 Develop marking patterns – marking  |  |  |
|  |  | 4.4 Stitching – practice over vinyl upper  |  |  |
|  |  | 4.5 Stitching – complete upper  |  |  |
|  |  | 4.6 Quality check points  |  |  |
|  |  |  |  |  |
| **5** | **ADVANCE LASTING / FINISHING OPERATIVE TECHNIQUES** | 20 DAYS |
|  |  | 5.1 Types of constructions  |
|  |  | 5.2 Tools used in lasting operations |  |  |
|  |  | 5.3 Bottom components , its types |  |  |
|  |  | 5.4 Drafting method its sequence  |  |  |
|  |  | 5.5 Hand lasting of upper |  |  |
|  |  | 5.6 Machine used in lasting operations |  |  |
|  |  | 5.7 Quality check points  |  |  |
|  |  | 5.8 Finishing operations and final packing |  |  |
|  |  |  |  |  |
| **6** | **FINAL PROJECT PRESENTATION** |  |  |
|  |  | 6.1 Display of Men’s/ladies designs , its patterns | 20 DAYS |
|  |  | 6.2 Sample development – full shoe |
|  |  | 6.3 Brief – Technical specification sheet |  |  |
|  |  | 6.4 Display of sample prepared. |  |  |
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1. **ASSESSMENT / EXAMINATION**

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| **1** | **BASIC/INTERNAL ASSESSMENT**  | ( Mid of the stage) | **P/T** | **MARKS** |
|  |  | 1. Prepare vinyl upper.
 | P |  |
|  |  | 1. Internal assessment test on shoe making process.
 | T |  |
| **2** | **FINAL PROJECT PRESENTATION** | ( Final stage of completion of session) |  |  |
|  |  | 1. Display & Submission - Designed standards with patterns.
 | P |  |
|  |  | 1. Display & Submission - two men’s compete footwear samples.
 | P |  |
|  |  | 1. Display & Submission - two ladies compete footwear samples.
 | P |  |
|  |  | 1. Display & Submission any self designed footwear sample on given last.
 | P |  |
|  |  | 1. Presentation through final product display with tech. Specification.
 | P |  |
|  |  | 1. Final test on complete shoe manufacturing techniques.
 | T |  |