

PRESENTATION AND INDEX - ADVANCED COURSE IN FOOTWEAR

Contact Information:

Phone: +34 698 905 673

Email: info@incubadoracalzadoindiproc.org

Website: www.incubadoracalzadoindiproc.org

Professional Course in Footwear Design

UNIT 1: FOOTWEAR

Contents:

1. History of Footwear
 - 1.1. Video: Explaining the History of Footwear
 - 1.2. Recommended Readings
2. Current Trends: Brands and Designers
3. Footwear Industrialization
4. Coolhunting
5. The Briefing
6. Glossary
7. Recap
8. Self-Assessment

UNIT 2: FOOTWEAR DESIGN

1. Introduction to Fashion and Footwear
2. Anatomy and Shape of the Human Foot
 - 2.1. Video: Explanation by a Professional Podiatrist
 - 2.2. Video: Explanation by a Professional Last Maker
3. Footwear Production Process
 - 3.1. Video: Footwear Production Process Explained
4. Types of Footwear, Parts, and Nomenclature

- 4.1. Men's Footwear
- 4.2. Women's Footwear
- 4.3. Shoe Parts and Nomenclature
- 5. Technical Footwear Design
 - 5.1. Templates for Footwear Design
- 6. Fitting and Pattern Making for Footwear and Accessories
- 7. Calculating the Area of Models
- 8. Components, Decorations, and Materials
 - 8.1. Examples and Product Data Sheets Available in the Market
 - 8.2. Recommended Readings
- 9. Preparing Prototypes
 - 9.1. Technical Data Sheets for Fittings and Prototypes
 - 9.2. Video: Designers in the Sector
- 10. Major Industry Fairs
 - 10.1. Video: Overview of Key Sector Fairs
- 11. Other Relevant Information: Fashion Websites

UNIT 3: RECOGNITION OF LEATHER AND SKIN CHARACTERISTICS

1. Structure of the Skin
2. Parts of Leather
3. Types of Leather
4. Identification Methods for Tanned Leather and Applications
5. Major Leather Defects
 - 6. Natural Defects
 - 7. Human-Induced Defects
 - 7.1. Animal Farming
 - 7.2. Skinning

- 7.3. Conservation
- 7.4. Tanning
- 7.5. Handling
- 6. Handling and Classification of Leather
- 7. Classification by Size, Thickness, Quality, or Finish
- 8. Technical Identification Sheets for Leather and Skins
- 9. Conservation Methods
- 10. Cleaning and Maintenance of Leather and Skins
- 11. Videos: Leather Suppliers Explained

UNIT 4: RECOGNITION OF TEXTILE FIBERS AND PRODUCTS

1. Types of Textile Fibers
 - 1.1. Natural Fibers
 - 1.1.1. Video: Supplier Explanation
 - 1.2. Artificial Fibers
 - 1.2.1. Video: Supplier Explanation
 - 1.3. Synthetic Fibers
 - 1.3.1. Video: Supplier Explanation
2. Fiber Manufacturing and Production
3. Fiber Properties
 - 3.1. Texture, Shine, and Color
 - 3.2. Heat Retention
 - 3.3. Moisture Absorption
 - 3.4. Elasticity
 - 3.5. Resistance to Aging, Abrasion, Tension, Chemicals, and Sunlight
 - 3.6. Chemical Reactivity
4. Threads: Characteristics and Applications

- 4.1. Thread Numbering
- 4.2. Twist Properties
- 4.3. Simple Tests for Thread Identification
- 4.4. Specifications for Footwear and Leather Goods Threads
- 5. Fabrics: Characteristics and Applications
 - 5.1. Woven Fabrics: Basic Weaves
 - 5.2. Knitted Fabrics
 - 5.3. Basic Fabric Recognition Methods
- 6. Non-Woven Fabrics
 - 6.1. Basic Manufacturing Processes
 - 6.2. Classification, Characteristics, and Properties
 - 6.3. Commercial Presentation: Identification, Handling, and Conservation
- 7. Laminated Fabrics
- 8. Textile Finishing Treatments: Finishes and Refinements
 - 8.1. Types of Textile Refinement
 - 8.2. Finishing Operations
 - 8.3. Effects of Refinements and Finishes on Fabrics
- 9. Recommended Readings

UNIT 5: NON-TEXTILE MATERIALS USED IN FOOTWEAR AND LEATHER GOODS REPAIR

- 1. Components and Hardware
 - 1.1. Composition: Brass, Zamak, etc.
 - 1.2. Hardware Examples
 - 1.3. Video: Hardware Explained
- 2. Fillers
 - 2.1. Foams, Sponges, Cardboard, etc.
- 3. Accessories and Prefabricated Components

- 3.1. Soles and Half-Soles
- 3.2. Heels
- 3.2.1. Video: Heel Supplier Explained
- 3.3. Insoles
- 3.3.1. Video: Insole Supplier Explained
- 3.4. Microporous and Cuerolite Sheets
- 3.4.1. Video: Sole Supplier Explained
- 4. Adhesives and Solvents
 - 4.1. Adhesive Types: Solvent-Based, Water-Based, Thermoplastic, etc.
 - 4.2. Characteristics and Properties
 - 4.3. Application Methods
 - 4.4. Safety Standards for Adhesive Handling and Storage
 - 4.5. Solvent Types
 - 4.6. Characteristics and Properties
 - 4.7. Safety Standards for Solvent Handling and Storage
- 5. Finishing Products
 - 5.1. Dyes, Waxes, Pigments, and More
 - 5.2. Characteristics and Properties
 - 5.3. Safety Standards for Handling and Storing Finishing Products
- 6. Creams, Fats, and Dyes
 - 6.1. Characteristics and Properties
 - 6.2. Safety Standards for Handling and Storage

UNIT 6: PRODUCTION PROCESSES BY HAND AND MACHINE

1. Cutting and Preparing Leather Techniques
2. Assembly Techniques for Various Materials
3. Assembly Operations

- 3.1. Manual Piece Assembly
 - 3.2. Sewing Machine Assembly
 - 3.3. Manual Assembly Using Thick Thread
 - 3.4. Quality Verification and Anomaly Correction
 - 3.5. Videos: Featuring Cristina
4. Techniques for Production Line and Mechanical Processes
 5. Finishing, Cleaning, and Packaging Processes