**Course Description:**

Students will learn advanced chemical services using specialized products and techniques. Students will do advanced coloring, dimensional coloring, corrective techniques, texturizing, and advanced chemical wave wrapping techniques.

**Strand 3. Health and Safety Interventions**

Students analyze the impact of hygiene and bacteriology on personal care services and how to demonstrate safe practices in accordance with federal, state and local regulations. Students gain general knowledge in infection control, prevention, and reducing risk of injury.

**Outcome: 3.1. Environmental Interventions**

Create and maintain a safe and sanitary environment.

**Competencies**

3.1.1. Use standard precaution guidelines, recommended by the Centers for Disease Control and Prevention.

3.1.2. Identify and remove environmental and electrical hazards to decrease the risk of falls, injury, or ingestion of dangerous materials (e.g., clutter, equipment, throw rugs, spills, plants, hazardous chemicals).

3.1.3. Demonstrate chemical and electrical safety and their application to the work environment.

3.1.4. Determine the risk of burns resulting from equipment, liquids, chemicals and fire.

3.1.5. Implement disaster preparedness response to fire, tornado, emergency evacuation, hazardous material spill, infant/child abduction, bomb threat, violent person, active shooter, missing adult and loss of power.

3.1.6. Identify risk factors of exposure to hazardous materials (i.e., chemical, radiologic, microbial) and provide safety precautions.

3.1.7. Account for all instruments, supplies and equipment.

3.1.8. Perform the safe operation, packing and cleaning of equipment.

3.1.9. Prepare and dispense solutions made from concentrates according to manufacturers’ directions.

3.1.10. Explain the need for appropriate working heights of chairs, stools, footrests, work areas and equipment.

3.1.11. Properly position clients to safely deliver service.

**Outcome: 3.2. Principles of Infection Control**

Use principles of infection control to prevent the growth and spread of pathogenic microorganism’s, infection, and ensure client safety.

**Competencies**

3.2.1. Identify the different types and classifications of bacteria.

3.2.2. Explain bacteria growth and its relationship to diseases and infection.

3.2.3. Describe the chain of infection and mechanisms for the spread of infection.

3.2.4. Implement methods of controlling or eliminating microorganisms and the importance of practices that hinder the spread of infection (e.g., hand washing, disinfecting care areas).

3.2.5. Use personal protective equipment (PPE) when encountering body fluids, potential of splashing, or respiratory droplets. (e.g., sneezing, coughing)

3.2.6. Perform various decontamination techniques and procedures.

3.2.7. Dispose of refuse and biodegradable materials, according to manufacturers’ directions and state and federal requirements.

3.2.8. Implement effective draping and client protection techniques.

3.2.9 Apply principles of decontamination (e.g. sanitize, disinfect, and sterilize.)

**Strand 4. Hair and Skin Services**

Students will learn to apply and analyze shampoo, rinse and conditioning services to clients. Students will perform hair analysis, cutting and styling services. Concepts and application of chemical waving, lightening, and coloring will be performed on clients.

**Outcome: 4.1. Perform Shampooing and Conditioning Services**

Students will describe and perform various hair services including shampooing, conditioning and procedures of the scalp.

**Competencies**

4.1.1. Explain the function of shampoo, rinse and conditioning services.

4.1.2. Compare and contrast product composition and product features and select for each service.

4.1.3. Evaluate the hair’s chemical composition and structure

4.1.4. Apply and rinse shampoo thoroughly through the clients scalp.

4.1.5. Apply and rinse treatment or conditioner based on manufacturer’s guidelines.

4.1.6. Perform necessary procedural adjustments to accommodate different types and textures of hair.

4.1.7. Complete the proper manipulation based on scalp analysis and client assessment.4.4.11. Apply braiding techniques to natural and artificial hair.

**Outcome: 4.2. Chemical Texturing**

Students will explain and demonstrate the procedures and techniques used in permanent waving, chemical relaxing, and curl reforming services.

**Competencies**

4.2.1. Describe the chemical and physical changes associated with perms and other chemical treatments.

4.2.2 Based on the composition and current state of hair and scalp, evaluate possible reactions to various chemical treatments (e.g., permanent wave, relax).

4.2.3. Differentiate between waving solution and neutralizer, and alkaline and acid-based perm.

4.2.4. Explain chemical waving or hair relaxing procedures and daily care.

4.2.5. Describe special problems associated with chemical waving or chemical hair relaxing procedures.

4.2.6. Contrast the various implements (e.g., rods, clips) used in chemical procedures.

4.2.7. Perform sectioning, blocking and wrapping techniques.

4.2.8. Complete the strand testing procedure.

4.2.9. Apply knowledge of possible adverse chemical reactions to the skin.

4.2.10. Apply the proper chemicals required for a permanent wave or chemical relaxer.

4.2.11. Apply the processing solution for the appropriate time to achieve desired results.

4.2.12. Blot, shampoo and/or neutralize all chemical solutions.

**Outcome: 4.3. Hair Coloring**

Students will define the law of color and identify the natural and artificial tone and level to perform a hair color technique.

**Competencies**

4.3.1. Explain color theory, “Law of Color,” chemistry of color, and their implications for hair procedures.

4.3.2. Compare and contrast between temporary, semi-permanent, demi-permanent and permanent hair color treatment.

4.3.3. Explain the special characteristics and percentages of gray, white, and salt and pepper hair.

4.3.4. Compare and contrast the chemicals used in hair coloring and select for the intended functions.

4.3.5. Identify potential problems that may be encountered during a hair coloring procedure and explain corrective measures.

4.3.6. Use color swatch or chart to determine the most appropriate level and shades of color.

4.3.7. Analyze hair texture, density, elasticity, porosity, condition and scalp for hair color or lightening applications.

4.3.8. Perform an FDA mandated skin test.

4.3.9 Select and assemble all needed materials.

4.3.10. Divide the hair into appropriate sections to visualize the scalp for proper application of product.

4.3.11. Describe techniques and procedures for hair color application.

4.3.12. Discuss the daily care of hair coloring treatments.

4.3.13. Perform a strand test.

4.3.14. Safely apply appropriate color, toner, and/or bleach according to manufacturer's guidelines.