**Course Description:**

Students will learn the anatomy of the head and scalp, structure of the hair and various techniques and procedures for analyzing hair, scalp disorders and diseases. Students will be able to determine hair porosity, elasticity, density, texture and growth patterns as well as conduct chemical tests for treated hair and ability to recommend corrective scalp procedures.

**Strand 1. Business Operations/21st Century Skills**

Learners apply principles of economics, business management, marketing and employability in an entrepreneur, manager and employee role to the leadership, planning, developing and analyzing of business enterprises related to the career field.

**Outcome: 1.3. Business Ethics and Law**

Analyze how professional, ethical and legal behavior contributes to continuous improvement in organizational performance and regulatory compliance.

**Competencies**

1.3.2. Follow protocols and practices necessary to maintain a clean, safe and healthy work environment.

1.3.5. Access and implement safety compliance measures (e.g., quality assurance information, safety data sheets [SDSs], product safety data sheets [PSDSs], United States Environmental Protection Agency [EPA], United States Occupational Safety and Health Administration [OSHA]) that contribute to the continuous improvement of the organization.

**Outcome: 1.10. Sales and Marketing**

Manage pricing, place, promotion, packaging, positioning and public relations to improve quality customer service.

**Competencies**

1.10.2. Determine the customer's/client’s needs and identify solutions and potential community resources.

1.10.9. Describe how product mix (e.g., product line, product items) maximizes sales revenues, market, share and profit margin.

**Strand 2. Human Body System**

Learners will analyze and explain the various forms, and functions associated with body systems and alterations from a normal state. Particular emphasis is given to disorders of the hair, skin, and scalp.

**Outcome: 2.1. The Human Body**

Describe the various human body systems and their functions.

**Competencies**

2.1.1. Describe the function and components of the respiratory system and pulmonary ventilation and factors influencing respiratory rates.

2.1.2. Describe nerve tissue and the nervous system, including regions of the brain and their function.

2.1.3. Describe the musculoskeletal system, including skeletal, cardiac and smooth muscle, and various bone structures.

2.1.4. Describe the immune system and the lymphatic system's role in immunity.

2.1.5. Describe the sensory system, related structures and functions.

2.1.6. Describe the endocrine system, its structures and the role of hormones.

2.1.7. Describe the integumentary system, related structures and functions.

2.1.8. Describe the difference between pathology and physiology.

**Outcome: 2.2. Disorders of the Skin, Glands, Hair and Scalp**

Identify and explain the various disorders and procedures associated with the skin, hair, glands, and scalp.

**Competencies**

2.2.1. Identify and describe diseases, and disorders of the skin and glands.

2.2.2. Describe procedures for skin disorders.

2.2.3. Explain the composition and structure of the hair follicle.(e.g., structure, shape, distribution and growth).

2.2.4. Complete a hair analysis and describe the qualities of hair.

2.2.5. Describe the various contagious and non-contagious disorders of the hair and scalp.

2.2.6. Explain corrective hair and scalp procedures.

2.2.7. Describe appropriate scalp manipulations and their respective functions.

**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.

**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 treatments 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.

**Outcome: 4.4. Hair Styling Services**

Students will use form and texture, combined with direction and movement to create a hair style for natural and artificial hair.

**Competencies**

4.4.4. Clean and store wigs and hairpieces care procedures (e.g., styling, cleaning, storing).