

Kalugahair Factory
Russian Federation
Kaluga Region, Mosalsk, Kaluzhskaya St. 78
Tel: +79621767318
Individual Entrepreneur Deshina A.S

WORK PROGRAM OF TRAINING
"BLEACHING OF NATURAL HAIR"

Field of study: hair treatment for hair extensions
and Laundry Products

Full-time education

Graduate Qualification: Basic Knowledge of the Subject

Kaluga, 2023

1. Goals and objectives of the training course (discipline): formation of a holistic perception by the student of the process of processing natural hair for the manufacture of strands for extensions and sewing products. Familiarization with the key stages of the production process. Training in intensive whitening of natural hair in blonde colors (N20, N 613, N22, N 24, N Db)

Course objectives;

– study by the student of the main stages of the production process of processing natural hair for the manufacture of strands for extensions and sewing products;

– familiarization with safety rules;

3/4 development by the student of production-based and up-to-date ideas about the subject, object and content of the technology of bleaching natural hair;

3/4 formation of an idea of the regularities of the process of bleaching natural hair and its main stages, as well as the general and special features of the bleaching process on raw materials of various origins;

— formation of the student's skills of independent work with technological maps of the process of bleaching natural hair.

— familiarization with chemical reagents, tools, equipment that are necessary for bleaching natural hair;

2. The place of the discipline in the structure of industrial training in the production of hair extensions:

The training course "BLEACHING OF NATURAL HAIR" is a discipline of the mandatory part of the training in the processing of natural hair for extensions and styling products. To master the discipline, students use the existing knowledge or skills, skills, competencies formed at the previous level of education.

3. List of planned learning outcomes in the discipline correlated with the planned results of mastering the main educational program:

The process of studying the discipline is aimed at the formation of the following competencies:

<i>Content of the Competency</i>	<i>Achievement Bar Competence</i>	<i>Learning Outcomes by discipline</i>
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<p>Competency 1 Able to analyze and account for the natural hair whitening process as part of the overall production process of human hair processing and its tasks. It is able to apply industrial bleaching technologies in practice.</p>	<p>Competency 1.1 Knows:</p> <ul style="list-style-type: none"> - Principles of chemical reactions used in bleaching and dyeing hair. - equipment and chemical reagents necessary for effective bleaching and dyeing of hair; - Sequence and time of technological procedures for bleaching and dyeing hair. 	<p>Knows:</p> <ul style="list-style-type: none"> - Pitchforks and types of hair raw materials from major supplier countries; - the theory of the technological process of bleaching and dyeing of natural hair, its place in the general production process; - the main patterns and stages of the technology of bleaching and dyeing of natural hair; - chemical reagents, tools, equipment necessary for bleaching natural hair; - Safety rules.
<p>Competency 1</p>	<p>Competency 1.2 Can:</p> <ul style="list-style-type: none"> - adequately assess the features and capabilities of various raw materials, their types and kinds to obtain the desired result; - adequately navigate the technological process of natural hair whitening. 	<p>Can:</p> <ul style="list-style-type: none"> - to give technical and economic characteristics of raw materials, taking into account their type, type, and country of origin; - be familiar with the chemical terms and formulas of those technological processes and reagents that are used for bleaching natural hair; - analyze and identify problems and errors in the process of bleaching natural hair; - determine the essence of the technological process at each of its stages, reveal trends, dynamics of its development, correlate them with the desired result; - adhere to safety rules.

4. Scope of Discipline and Types of Academic Work

The total labor intensity of the discipline is _____48 hours.

<i>Type of Academic Work</i>	<i>Total Hours</i>	<i>Theory</i>	<i>Practice</i>

Lecture	6	6	0
Practical exercises	16	10	6
Labs	26	6	20

5. Content of the discipline

5.1.1. Content of the discipline sections

<i>Item No.</i>	<i>Name of the discipline section</i>	<i>Content Section</i>	<i>Competencies to be formed</i>	<i>Forms of conducting classes</i>	<i>Evaluation means</i>
1.	Theory of the Production Process of Human Hair Processing	Regulatory framework. Technological tasks of hair products production. The logic of product transformation in the production process: raw materials, semi-finished products, finished products. Technological diagram of the production process. Methods and principles of hair processing technology. Concept and terms. Characteristics and explication of production facilities for a hair factory.	Competency 1	Lecture. Factory tour.	Security questions.
2.	The place of the natural hair bleaching process in the production of human hair products.	Bleaching as a way to achieve ultra light shades and as a necessary basic process of preparing hair for dyeing in various colors. Production stages of hair whitening. Characteristics and explication of the production premises of the dyeing shop. Equipment and tools. Specification of technological equipment. Safety engineering.	Competency 1	Lecture	Security questions.

3	Hair Raw Material: Types and types, main countries suppliers.	Characteristics of the hair raw material market and its evaluation in relation to whitening tasks. Types of natural hair raw materials: donor hair from one head (singl donor hair), donor mixed hair (mix donor hair), hair from combs (hair bolls), inverted hair (no remy hair), restored hair (recycled hair). Types of natural hair raw materials: undyed, donor-dyed, gray.Hair raw materials by region of origin: European hair (Russia, Ukraine, EU countries), South American hair (Brazil, Bolivia, Mexico), Caucasian hair (Georgia, Armenia, Azerbaijan, Iran), Indian hair (India, Bangladesh, Myanmar, Indonesia), Asian hair (China, Mongolia, Cambodia, Vietnam).	Compe tency 1	Lectur e with demo nstrati on.	Securit y questio ns.
4	Acceptance of raw materials. Specifics of Evaluation of Hair Raw Materials. Preparation of hair raw materials for bleaching	Acceptance of raw materials. Checkweighing. Characteristics for the valuation of hair raw materials: moisture content of the raw material, filling of the ends, specifics of measuring the length of the raw material. Sorting of raw materials by length, quality and color. Processing of raw hair with nits. Drawing up a production invoice. Raw material stitching. Sewing machine for fixing raw materials and its options. Spunbond and other materials for fixing raw materials.	Compe tency 1	Lectur e with demo nstrati on. Lab	Securit y questio ns.
5	Hair whitening	Flow chart of the intensive whitening process. Mordant. Reaction principle. Mordant formulation. Control elements: temperature, Ph, dwell time. Oxidative bleaching process. Reaction principle. Recipe. Control elements: temperature, Ph, hair color and quality, exposure time. Antioxidant reduction process. Reaction principle. Formulation of the antioxidant reduction process. Neutralization. Anti-yellow toning of bleached hair. Specification of basic reagents and consumables. Waste.	Compet ency 1.2	Lab work	Securit y questio ns. Discus sion

6	Post-treatment of bleached hair.	Combing and drying bleached hair. Quality control of bleached hair. Sorting: by color, by structure, by softness. Toning bleached hair in cool shades. Reaction principle. Toning recipe. Control elements: solution temperature, Ph, dwell time.	Competency 1	Laboratory work, practical lesson.	Security questions. Discussion
7	Mechanical treatment of bleached hair.	Compilation of blends. Spunbond removal. Mixing. Padding. Washing bleached hair tails. Quality control of bleached hair ponytails. Drying. Acceptance of bleached hair tails to the finished product warehouse.	Competency 1.2	Laboratory work, practical lesson	Security questions. Discussion

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5.1.2. Independent work of students

<i>Item No.</i>	<i>Name of the discipline section (topic)</i>	<i>Types of Students' Independent Work</i>	<i>Forms of control Self-study Students</i>
1	History and Theory of Posterity.	Study of recommended educational and methodological literature, lecture material, use of Internet resources.	Poll, Conversation, Discussion
2	Overview of International and Domestic Hair Raw Material Markets	Study of recommended educational and methodological literature, lecture material, use of Internet resources.	Poll, Conversation, Discussion
3	Overview of International and Domestic Human Hair Products Markets	Study of recommended educational and methodological literature, lecture material, use of Internet resources.	Poll, Conversation, Discussion
4	Theory of industrial bleaching.	Study of recommended educational and methodological literature, lecture material, use of Internet resources.	Poll, Conversation, Discussion

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5.2. Discipline Sections and Types of Classes

<i>Item No.</i>	<i>Name of the discipline section</i>	<i>L</i>	<i>To</i>	<i>W</i>	<i>LA</i>	<i>Altogether</i>
		<i>U</i>	<i>R</i>	<i>E</i>	<i>M</i>	<i>r</i>
		<i>X</i>		<i>D</i>	<i>BE</i>	<i>Hours</i>
					<i>RT</i>	
1.	Theory of the Production Process of Human Hair Processing	2		2		
2.	The place of the natural hair bleaching process in the production of human hair products.	1		2		
3	Hair Raw Material: Types and types, main countries suppliers.	1	1	2		
4	Acceptance of raw materials. Specifics of Evaluation of Hair Raw Materials. Preparation of hair raw materials for bleaching	2	2		2	
5	Hair whitening		2	2	20	
6	Post-treatment of bleached hair.		1		2	
7	Mechanical treatment of bleached hair.		2		2	
	Altogether	6	8	8	26	48

6. Assessment tools for current monitoring of academic performance, based on the results of mastering the discipline and educational and methodological support for students' independent work

6.1 Description of Assessment Tools for Ongoing Monitoring of Academic Progress

Current control is carried out during the course in the form of interviews during laboratory classes, tests on the topics of the discipline and checking the independent work of students.

Tests are the simplest form of control aimed at checking the mastery of the terminological apparatus and specific knowledge in the field of fundamental and applied disciplines.

Procedure for evaluating test results.

The test is carried out on the 4th day of training (test No. 1). The test consists of 10 tasks dedicated to section N3 (Hair Raw Materials) and 20 tasks dedicated to section N5 (Hair bleaching). You have 15 minutes to complete the test. The teacher checks the test and presents the results to the students in the session following the test. If, according to the test results, the student received 7.5 points or less (the student coped with 50% of the tasks or less), the test can be rewritten as part of individual work during the teacher's consulting hours on the 5th day of training.

The level of formation of students' competencies in the process of mastering the discipline is assessed during the course for each type of assessment tool using the following criteria and assessment indicators:

- answering the questions of practical classes on the topics of the discipline:

Criteria	Indicators
Factual knowledge of the issue	- Scope of knowledge - Completeness of knowledge - Durability of knowledge
Ability to link theory to relevant practice	- Ability to illustrate theoretical provisions with specific examples, apply them in a new situation - Ability to creatively apply knowledge of theory to solving professional problems
Understanding of the main problems and the essence of the issue presented	- Knowledge of definitions and basic concepts - Meaningfulness - Consistency
Logic and sequence of presentation of the material	- Consistency of presentation - Sequence of presentation • literacy of presentation - Ability to draw conclusions based on the material presented
Reasonableness of the choice of sources	- the range and completeness of the use of literary sources on the topic - Ability to work independently with literature
Culture of Speech	- correctness and accuracy of the answer to the question posed; - scientifically competent and practical presentation of the material

- tests on the topics of the discipline:

Criteria	Indicators
Actual Quiz Execution by Topic	Correctness of the answer to the test questions

Description of Grading Scales

- Scale of assessment of answers to questions on the topics of the discipline:

Criterion	Number of points
Factual knowledge of the issue	1,0
Ability to link theory to relevant practice	0,8
Understanding of the main problems and the essence of the issue presented	1,0
Logic and sequence of presentation of the material	0,11
Reasonableness of the choice of sources	0,6
Culture of Speech	0,5
Total Points	5

- Scale for evaluating test results on the topics of the discipline

Number of correct answers	Number of points
1	0,5
2	1
3	1,5
4	2
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30	15
Total Points	15

7. Educational, methodological and informational support of the discipline:

(a) Reference citations:

1. Betachem, technological processes of whitening and toning of hair extensions.
2. Baturchik N.P. Barber Works / Baturchik N.P. - Minsk: Vysheishaya shkola, 1977 - p.240 with ill.
3. Konstantinov A.V. Osnovy postizhernogo dela: Uchebnik dlya tekhnikumov [Fundamentals of post-technical work: Textbook for technical schools] / A.V. Konstantinov.-M.: "Light and Food Industry", 1982.-160 p.
4. Moyseyonok Zh.V. Tekhnologiya postizhernykh raboty: Uchebnoe posobie / Zh.V. Moyseyonok.-Minsk: RIPO, 2019.-209 p.

5. Panchenko O A. Barberskoe delo [Hairdressing business]: textbook for students of special educational institutions. -Ed. 4th. - Rostov-on-Don: Phoenix, 2011. - 318 p. (in Russian).
6. Panina, Nadezhda Ivanovna. Osnovy barberskogo dela: uchebnoe posobie dlya ispol'zovanie v uchebnom protsesse obrazovatel'nykh uchrezhdenii, realizatsiyushchikh programmy nachal'nogo professional'nogo obrazovaniya i professional'nogo podgotovki [Fundamentals of hairdressing: a textbook for use in the educational process of educational institutions, implementing programs of initial professional education and professional training]. - 5th ed., ster. - Moscow: Akademiya, 2014. - 63, [1] p.

b) Further reading:

- 1 Hair Extensions market Research and Markets [electronic resource]
<https://www.researchandmarkets.com/report/hair-extension#reld0-5734875> (accessed 31.10.2023)
- 2 Hair Extensions Market By Type, By Fitting Type, By Distribution Channel, By End Use: Global Opportunity Analysis and Industry Forecast, 2021-2031, Research and Markets [electronic resource] <https://www.researchandmarkets.com/reports/5835723/hair-extensions-market-type-fitting-type#rela2-5734875> (accessed 31.10.2023)
- 3 Hair Extension Market Forecast to 2030 - Global Analysis by Product Type, Source, and Distribution Channel, Research and Markets [Hair Extension Market Forecast to 2030 - Global Analysis by Product Type, Source, and Distribution Channel, Research and Markets] <https://www.researchandmarkets.com/reports/5031143/global-hair-wigs-and-extension-market-2023-2027#rela3-5734875> (accessed 31.10.2023)

8. Logistical support of discipline

Training classes on the discipline "Bleaching of natural hair" are equipped with the necessary tools and equipment for conducting classes: a board, work tables, sewing machines, sewing tools, scales, dyeing baths, personal protective equipment.

Developer(s):

"Kalugahair Factory" IP Dëshina A.S.