
Advanced Certification in Fashion Design Alterations

Sustainable Materials for Alterations

AATCC stands for American Association of Textile Chemists and Colorists, an organization that provides test methods and standards for the textile industry, including those related to sustainable materials. This organization is crucial in the Advanced Certification in Fashion Design Alterations as it provides guidelines for the care and maintenance of textiles, which is essential for alterations. Related terms include textile testing, colorfastness, and fabric performance.

Alteration refers to the process of modifying or changing an existing garment to improve its fit, appearance, or function. In the context of sustainable materials, alterations can help reduce waste by extending the life of a garment. This concept is essential in the Advanced Certification in Fashion Design Alterations as it requires students to understand the principles of altering garments while considering the sustainability of the materials used. Related terms include garment construction, pattern making, and textile science.

Biodegradable materials are those that can break down naturally in the environment, often used in sustainable fashion to reduce pollution and waste. Examples of biodegradable materials include plant-based fabrics, such as hemp and bamboo, and biodegradable plastics. In the context of alterations, biodegradable materials can be used to create new garments or to repair existing ones, reducing the need for synthetic materials. Related terms include compostable, recyclable, and eco-friendly materials.

Carbon footprint refers to the amount of greenhouse gas emissions associated with the production, transportation, and consumption of a product, including textiles. In the Advanced Certification in Fashion Design Alterations, understanding carbon footprint is essential as it helps students make informed decisions about the materials they use and the impact of their designs on the environment. Related terms include life cycle assessment, environmental impact, and sustainable production.

Circular economy is an economic system that aims to reduce waste and the continuous consumption of resources by promoting the reuse and recycling of products, including textiles. In the context of alterations, a circular economy approach can be applied by using recycled materials, upcycling old garments, or designing garments that can be easily recycled or biodegradable. Related terms include closed-loop production, sharing economy, and sustainable consumption.

Colorfastness refers to the ability of a textile to resist color change or bleeding when exposed to water, light, or other environmental factors. In the Advanced Certification in Fashion Design Alterations, understanding colorfastness is crucial as it affects the appearance and longevity of a garment. Related terms include dyeing, printing, and finishing treatments.

Cradle-to-cradle design is a approach to design that aims to create products that are perpetually cyclable, meaning they can be recycled or biodegradable, reducing waste and the continuous consumption of resources. In the context of alterations, cradle-to-cradle design can be applied by using materials that are recyclable or biodegradable, designing garments that can be easily disassembled, or creating products that

can be upcycled into new garments. Related terms include circular economy, sustainable design, and eco-friendly materials.

Eco-friendly materials refer to materials that have a reduced environmental impact, often made from natural or recycled sources. In the Advanced Certification in Fashion Design Alterations, eco-friendly materials are essential as they help reduce the environmental footprint of the fashion industry. Examples of eco-friendly materials include organic cotton, recycled polyester, and plant-based fabrics. Related terms include sustainable materials, green technology, and environmentally responsible production.

Embroidery is a decorative technique used to create intricate designs on fabrics using thread or yarn. In the context of alterations, embroidery can be used to add decorative elements to a garment, repair damaged areas, or create new designs. Related terms include needlework, appliqué, and textile art.

Fabric finishing refers to the process of treating fabrics to give them specific properties, such as water resistance, wrinkle resistance, or softness. In the Advanced Certification in Fashion Design Alterations, understanding fabric finishing is essential as it affects the performance and appearance of a garment. Related terms include textile treatment, fabric coating, and surface modification.

Garment construction refers to the process of creating a garment from patterns, fabrics, and other components. In the context of alterations, garment construction is essential as it requires understanding the structure and assembly of a garment to make modifications or repairs. Related terms include pattern making, textile science, and fashion design.

Green technology refers to the use of technology to reduce environmental impact and promote sustainability. In the Advanced Certification in Fashion Design Alterations, green technology can be applied by using digital printing, 3D printing, or other innovative technologies to reduce waste and improve efficiency. Related terms include sustainable production, eco-friendly materials, and environmental responsibility.

Hemp is a natural, sustainable fiber used to make fabrics, paper, and other products. In the context of alterations, hemp can be used to create durable and versatile garments, such as jackets, trousers, and dresses. Related terms include organic cotton, bamboo, and plant-based fabrics.

Life cycle assessment is a method used to evaluate the environmental impact of a product throughout its entire life cycle, from production to disposal. In the Advanced Certification in Fashion Design Alterations, understanding life cycle assessment is essential as it helps students make informed decisions about the materials they use and the impact of their designs on the environment. Related terms include carbon footprint, environmental impact, and sustainable production.

Natural dyes are dyes derived from plants, animals, or minerals, often used in sustainable fashion to reduce pollution and waste. In the context of alterations, natural dyes can be used to create unique and sustainable color palettes, such as indigo, madder, and turmeric. Related terms include plant-based dyes, eco-friendly dyes, and sustainable color systems.

Organic cotton is a type of cotton that is grown without the use of synthetic pesticides or fertilizers, often

used in sustainable fashion to reduce environmental impact. In the context of alterations, organic cotton can be used to create comfortable and breathable garments, such as t-shirts, dresses, and underwear. Related terms include sustainable cotton, fair trade cotton, and eco-friendly materials.

Pattern making is the process of creating a template or pattern to cut and construct a garment. In the Advanced Certification in Fashion Design Alterations, understanding pattern making is essential as it requires creating accurate and efficient patterns to modify or repair garments. Related terms include garment construction, textile science, and fashion design.

Recyclable materials are materials that can be reused or recycled, often used in sustainable fashion to reduce waste and promote circularity. In the context of alterations, recyclable materials can be used to create new garments or to repair existing ones, reducing the need for virgin materials. Examples of recyclable materials include recycled polyester, nylon, and polypropylene. Related terms include biodegradable materials, compostable materials, and sustainable materials.

Recycling refers to the process of collecting and processing materials to create new products, reducing waste and the continuous consumption of resources. In the Advanced Certification in Fashion Design Alterations, understanding recycling is essential as it helps students make informed decisions about the materials they use and the impact of their designs on the environment. Related terms include upcycling, downcycling, and waste reduction.

Sustainable materials refer to materials that have a reduced environmental impact, often made from natural or recycled sources. In the Advanced Certification in Fashion Design Alterations, sustainable materials are essential as they help reduce the environmental footprint of the fashion industry. Examples of sustainable materials include organic cotton, recycled polyester, and plant-based fabrics. Related terms include eco-friendly materials, green technology, and environmentally responsible production.

Textile science refers to the study of the properties and behavior of textiles, including fibers, yarns, and fabrics. In the Advanced Certification in Fashion Design Alterations, understanding textile science is essential as it requires knowledge of the structure, properties, and performance of textiles to make informed decisions about materials and construction methods. Related terms include fabric physics, textile chemistry, and materials science.

Upcycling refers to the process of transforming old or discarded materials into new, higher-value products, often used in sustainable fashion to reduce waste and promote circularity. In the context of alterations, upcycling can be used to create unique and sustainable garments, such as turning old t-shirts into bags or quilts. Related terms include recycling, downcycling, and waste reduction.

Waste reduction refers to the process of minimizing the amount of waste generated during the production, consumption, and disposal of products, including textiles. In the Advanced Certification in Fashion Design Alterations, understanding waste reduction is essential as it helps students make informed decisions about the materials they use and the impact of their designs on the environment. Related terms include recycling, upcycling, and sustainable production.

Zero waste design is a approach to design that aims to eliminate waste by creating products that are fully

recyclable, biodegradable, or reusable. In the context of alterations, zero waste design can be applied by using patterns that minimize fabric waste, designing garments that can be easily disassembled, or creating products that can be upcycled into new garments. Related terms include circular economy, sustainable design, and eco-friendly materials.

3D printing is a technology used to create three-dimensional objects from digital models, often used in sustainable fashion to reduce waste and improve efficiency. In the Advanced Certification in Fashion Design Alterations, 3D printing can be used to create customized garments, accessories, or prototypes, reducing the need for physical prototypes and minimizing waste. Related terms include digital printing, additive manufacturing, and sustainable production.

Abrasion resistance refers to the ability of a fabric to resist wear and tear, often used in sustainable fashion to extend the life of a garment. In the context of alterations, abrasion resistance is essential as it affects the durability and performance of a garment. Related terms include fabric strength, textile science, and garment construction.

Bamboo is a natural, sustainable fiber used to make fabrics, paper, and other products. In the context of alterations, bamboo can be used to create breathable and moisture-wicking garments, such as activewear, underwear, and sleepwear. Related terms include organic cotton, hemp, and plant-based fabrics.

Compostable materials are materials that can break down naturally in the environment, often used in sustainable fashion to reduce pollution and waste. In the context of alterations, compostable materials can be used to create biodegradable garments, such as lingerie or accessories, that can easily decompose at the end of their life cycle. Related terms include biodegradable materials, recyclable materials, and sustainable materials.

Digital printing is a technology used to print designs directly onto fabrics, often used in sustainable fashion to reduce waste and improve efficiency. In the Advanced Certification in Fashion Design Alterations, digital printing can be used to create customized garments, accessories, or prototypes, reducing the need for physical prototypes and minimizing waste. Related terms include 3D printing, inkjet printing, and sustainable production.

Dyeing is the process of coloring fabrics using dyes or pigments, often used in sustainable fashion to create unique and sustainable color palettes. In the context of alterations, dyeing can be used to repair or modify existing garments, reducing the need for new materials. Related terms include printing, finishing treatments, and textile science.

Eco-labeling refers to the practice of labeling products with environmental or social claims, such as organic or sustainable. In the Advanced Certification in Fashion Design Alterations, understanding eco-labeling is essential as it helps students make informed decisions about the materials they use and the impact of their designs on the environment. Related terms include sustainability certification, environmental labeling, and social responsibility.

Fair trade refers to the practice of ensuring that workers are paid a fair wage and work in safe conditions, often used in sustainable fashion to promote social responsibility. In the context of alterations, fair trade can

be applied by sourcing materials from fair trade certified suppliers or working with fair trade certified manufacturers. Related terms include social responsibility, environmental sustainability, and ethical fashion.

Fast fashion refers to the rapid production and consumption of cheap, trendy clothing, often resulting in waste and environmental degradation. In the Advanced Certification in Fashion Design Alterations, understanding fast fashion is essential as it highlights the need for sustainable and responsible fashion practices. Related terms include slow fashion, sustainable fashion, and environmental responsibility.

Finishing treatments refer to the processes used to give fabrics specific properties, such as water resistance, wrinkle resistance, or softness. In the context of alterations, finishing treatments can be used to repair or modify existing garments, reducing the need for new materials. Related terms include fabric treatment, textile science, and surface modification.

Garment care refers to the practices used to maintain and extend the life of a garment, such as washing, drying, and storage. In the Advanced Certification in Fashion Design Alterations, understanding garment care is essential as it affects the performance and longevity of a garment. Related terms include fabric care, textile science, and maintenance techniques.

Inkjet printing is a technology used to print designs directly onto fabrics, often used in sustainable fashion to reduce waste and improve efficiency. In the context of alterations, inkjet printing can be used to create customized garments, accessories, or prototypes, reducing the need for physical prototypes and minimizing waste. Related terms include digital printing, 3D printing, and sustainable production.

Knitting is a technique used to create fabrics by interlacing loops of yarn, often used in sustainable fashion to create warm and breathable garments. In the context of alterations, knitting can be used to repair or modify existing garments, reducing the need for new materials. Related terms include weaving, crochet, and textile construction.

Laser cutting is a technology used to cut fabrics and other materials with precision and accuracy, often used in sustainable fashion to reduce waste and improve efficiency. In the Advanced Certification in Fashion Design Alterations, laser cutting can be used to create customized garments, accessories, or prototypes, reducing the need for physical prototypes and minimizing waste. Related terms include digital cutting, CNC cutting, and sustainable production.

Microplastics refer to small plastic particles that can pollute the environment and harm marine life, often used in sustainable fashion to reduce pollution and promote environmental responsibility. In the context of alterations, microplastics can be reduced by using sustainable materials, such as natural fibers or recycled polyester, and by avoiding the use of plastic-based fabrics. Related terms include plastic pollution, environmental degradation, and sustainable materials.

Nanotechnology refers to the use of tiny particles to create new materials and products, often used in sustainable fashion to improve performance and reduce waste. In the Advanced Certification in Fashion Design Alterations, nanotechnology can be used to create innovative textiles, such as self-cleaning fabrics or water-repellent treatments. Related terms include nano materials, textile science, and sustainable production.

Organic farming refers to the practice of growing crops without the use of synthetic pesticides or fertilizers, often used in sustainable fashion to promote environmental responsibility. In the context of alterations, organic farming can be applied by sourcing materials from organic farms or working with organic certified suppliers. Related terms include sustainable agriculture, environmental stewardship, and social responsibility.

Performance fabrics refer to fabrics that have specific properties, such as water resistance, breathability, or stretch, often used in sustainable fashion to improve the functionality and comfort of garments. In the context of alterations, performance fabrics can be used to repair or modify existing garments, reducing the need for new materials. Related terms include technical fabrics, textile science, and garment construction.

Polyester is a synthetic fiber used to make fabrics, often used in sustainable fashion to reduce waste and promote circularity. In the context of alterations, polyester can be used to create durable and versatile garments, such as jackets, trousers, and dresses. Related terms include nylon, polypropylene, and recycled materials.

Quilting is a technique used to create layered fabrics, often used in sustainable fashion to create warm and breathable garments. In the context of alterations, quilting can be used to repair or modify existing garments, reducing the need for new materials. Related terms include patchwork, appliqué, and textile construction.

Recycled materials refer to materials that have been collected, sorted, and processed to create new products, often used in sustainable fashion to reduce waste and promote circularity. In the context of alterations, recycled materials can be used to create new garments or to repair existing ones, reducing the need for virgin materials. Related terms include recyclable materials, biodegradable materials, and sustainable materials.

Screen printing is a technique used to print designs onto fabrics, often used in sustainable fashion to create unique and sustainable color palettes. In the context of alterations, screen printing can be used to repair or modify existing garments, reducing the need for new materials. Related terms include digital printing, inkjet printing, and textile science.

Slow fashion refers to the practice of designing, producing, and consuming clothing in a way that is sustainable and responsible, often used in sustainable fashion to promote environmental responsibility. In the Advanced Certification in Fashion Design Alterations, understanding slow fashion is essential as it highlights the need for sustainable and responsible fashion practices. Related terms include fast fashion, sustainable fashion, and environmental responsibility.

Social responsibility refers to the practice of ensuring that workers are paid a fair wage and work in safe conditions, often used in sustainable fashion to promote social responsibility. In the context of alterations, social responsibility can be applied by sourcing materials from fair trade certified suppliers or working with fair trade certified manufacturers. Related terms include environmental sustainability, fair trade, and ethical fashion.

Sustainable fashion refers to the practice of designing, producing, and consuming clothing in a way that is

sustainable and responsible, often used in sustainable fashion to promote environmental responsibility. In the Advanced Certification in Fashion Design Alterations, understanding sustainable fashion is essential as it highlights the need for sustainable and responsible fashion practices. Related terms include slow fashion, fast fashion, and environmental responsibility.

Textile recycling refers to the process of collecting and processing textiles to create new products, often used in sustainable fashion to reduce waste and promote circularity. In the context of alterations, textile recycling can be used to create new garments or to repair existing ones, reducing the need for virgin materials. Related terms include fabric recycling, garment recycling, and sustainable production.

Upcycled materials refer to materials that have been transformed into new products, often used in sustainable fashion to reduce waste and promote circularity. In the context of alterations, upcycled materials can be used to create unique and sustainable garments, such as turning old t-shirts into bags or quilts. Related terms include recycled materials, biodegradable materials, and sustainable materials.

Weaving is a technique used to create fabrics by interlacing threads, often used in sustainable fashion to create warm and breathable garments. In the context of alterations, weaving can be used to repair or modify existing garments, reducing the need for new materials. Related terms include knitting, crochet, and textile construction.

Wool is a natural fiber used to make fabrics, often used in sustainable fashion to create warm and breathable garments. In the context of alterations, wool can be used to repair or modify existing garments, reducing the need for new materials. Related terms include cashmere, angora, and natural fibers.

Zero waste refers to the practice of eliminating waste by designing products and systems that are fully recyclable, biodegradable, or reusable. In the Advanced Certification in Fashion Design Alterations, understanding zero waste is essential as it highlights the need for sustainable and responsible fashion practices. Related terms include circular economy, sustainable design, and environmental responsibility.