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Goodheart-Willcox Publisher Correlation of Apparel: Design, Textiles & Construction ©2018 to Precision Exams Clothing & Textiles I		
STANDARD		CORRELATING PAGES
Standard 1: RECOGNIZE BASIC SEWING EQUIPMENT.		
1.1	Identify sewing machine parts and their function, safety, and maintenance.	419-423
1.1.1	Identify the needle stitch plate, feed dogs, presser foot, bobbin case, spool pin, upper thread tension, presser foot lever/lifter, thread take-up lever, foot pedal, hand wheel, stitch length control, and stitch width control.	419-421
1.1.2	Demonstrate how to thread the sewing machine, replace a needle and how to turn the hand wheel when sewing.	412, 419, 421
1.1.3	Identify how a stitch is formed (sewing machine forms a stitch when the upper and bobbin threads interlock).	421
1.1.4	Identify safe sewing procedures (keep fingers a safe distance from needle, foot pedal placement).	421-423
1.1.5	Clean, oil, and care for the machine according to machine manual.	423
1.2	Introduce the serger and its function.	491-509
1.2.1	Discuss the advantages of the serger (cuts excess fabric, sews, and edge finishes).	491-492
1.2.2	Practice operating the serger.	498-509
1.2.3	Discuss safety and maintenance of a serger (always leave the presser foot down, do not serge over pins, zippers, or excessive bulk).	506-507, 509
1.3	Resolve sewing machine malfunctions.	422
1.3.1	Identify basic problems encountered when sewing: thread jam, broken needle, and incorrect stitch formation.	422
1.3.2	Explain solutions to common sewing machine malfunctions (skipped stitches, lint removal, noisy sewing machine, puckered seams, snagged fabric, tension, and looped thread).	422
1.4	Identify sewing equipment, function, and safety procedures.	409-423



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1.4.1	Identify a seam ripper, dressmaker pins, shear/scissors, pinking shears, rotary cutter and mat, seam gauge, tape measure, and transparent rulers.	409-412
1.4.2	List sewing equipment safety precautions, procedures, and maintenance.	413, 421-423
Standard 2: RECOGNIZE BASIC PRESSING EQUIPMENT.		
2.1	Identify parts and functions of irons.	249, 263-264
2.1.1	Identify temperature settings with different fiber content.	249, 263-264
2.1.2	Explain safety procedures.	249, 264
2.1.3	Explain the maintenance, cleaning and storage of an iron.	249, 263-264
2.2	Identify basic pressing equipment and functions.	249, 263-264, 418, 429, 448, 454-455, 468-469
2.2.1	Demonstrate the use of a pressing cloth.	418, 468
2.2.2	Complete pressing/ironing techniques (press as you sew, appropriate pressing of seams).	249, 263-264, 418, 429, 448, 468-469
2.2.3	Demonstrate the use of fusibles.	418, 454-455
Standard 3: ANALYZE THE CHARACTERISTICS AND CARE OF SPECIFIC TEXTILES.		
3.1	Identify basic fibers, the characteristics, use and care of each textile.	240-242, 253-256, 322-331, 337-342, 351
3.1.1	Identify natural fibers and their characteristics (cotton, linen, silk, wool).	322-331
3.1.2	Identify synthetic fibers and their characteristics (nylon, polyester, acrylic, rayon, spandex, acetate).	337-342
3.1.3	Identify advantages of blended fibers used in fabrics.	351
3.1.4	Practice various stain removal techniques (grass, gum, blood, chocolate, make-up, ballpoint pen; stains set by heat and time).	240-242
3.1.5	Select correct laundering procedures based on clothing care labels.	253-256
3.2	Discuss how fabric construction affects selection of fabric.	351-359, 401-402
3.2.1	Identify the terminology of woven fabrics (lengthwise, crosswise, bias, selvage, straight of grain/lengthwise, and cut/raw edge).	351-355
3.2.2	Identify the characteristics of woven, knit (interlocking loops), and non-woven/felted fabrics.	351-359



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3.2.3	Identify correct fabric for project.	401-402
Standard 4: USE PATTERN ENVELOPE AND GUIDE SHEET/INSTRUCTIONS FOR PRE-CONSTRUCTION SKILLS AT THE INTRODUCTORY LEVEL.		
4.1	Identify the information found on the pattern envelope and instruction guide sheet.	379-389, 390-391, 395-397, 430
4.1.1	Identify important information on the pattern envelope (appropriate size, fabric type, notions, and yardage).	395-397
4.1.2	Identify important information found on the guide sheet (select pattern pieces, layout, and construction steps).	397-398, 430
4.1.3	Determine pattern size based on body measurements.	379-389, 390-391
4.2	Complete pattern preparation.	399, 430-432, 466
4.2.1	Identify pattern tissue terminology/symbols (straight of grain arrows, notches, small dots, squares, triangles, buttons and buttonholes, cutting line, fold line).	399, 466
4.2.2	Complete necessary pattern adjustments (length or width).	430-432
4.3	Correctly layout the pattern pieces on the fabric.	397, 427-429, 432-435
4.3.1	Preshrink fabrics with high cotton content.	427-428
4.3.2	Press and straighten grain, if necessary.	429
4.3.3	Check for one-way and/or nap layout.	433-435
4.3.4	Identify correct layout.	397, 432-435
4.3.5	Check straight of grain.	429
4.3.6	Double check all pieces before cutting.	435
4.4	Correctly pin and cut out the fabric pieces.	409-410, 435-436
4.4.1	Use correct spacing and positioning of pins (pin perpendicular to pattern edge, inside cutting line).	435
4.4.2	Select and use appropriate cutting tools.	409-410
4.4.3	Cut notches.	436
4.4.4	Keep the fabric as flat as possible when cutting pattern pieces out.	409, 436
4.5	Correctly mark the necessary pattern markings on the fabric pieces.	411-412, 436-438, 504
4.5.1	Identify marking tools and methods.	411-412, 436-438, 504



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4.5.2	Select and use the best type of marking for fabric (pins, marking pen/pencil, chalk, tracing wheel and paper).	411-412, 436-438, 504
Standard 5: UTILIZE CONSTRUCTION TECHNIQUES AT THE INTRODUCTORY LEVEL.		
5.1	Identify and practice basic construction techniques (basting stitch, back stitching, pivoting, clipping, notching, fold line, grading/layering, interfacing, reinforce stitching, seam allowance, seam finishes, selvage, stitching line, top stitching, and right sides together).	399, 428-429, 438, 444-448, 450-452, 454-455, 482
5.2	Examine and select correct thread for the project.	414-415, 485
5.2.1	Standard thread is “all purpose”.	414
5.2.2	Specialty threads (quilting, heavy duty, embroidery, metallic).	414-415
5.2.3	Serger thread is lighter weight than all-purpose sewing machine thread.	497
5.2.4	Quality thread prevents stitching problems.	414
5.3	Compare and select correct needles.	412, 485
5.3.1	Identify needle types (universal, sharp and ball point).	412
5.3.2	Needle size/number (smaller size/number needle for fine or lightweight fabrics, larger needle size/number for dense or thicker fabrics).	412
5.3.3	Insert needle according to machine manual.	412
5.4	Identify and construct standard seam widths and markings.	419, 443
5.4.1	Check guide sheets/instructions for correct seam width (standard seam width for commercial pattern is 5/8 inch).	443
5.4.2	Identify 1/4, 3/8, 1/2, 5/8, and 3/4-inch width guidelines on the needle stitch plate.	419
5.5	Press garment correctly.	148, 249, 263-264, 418, 429, 468-469
5.5.1	Pressing is an up and down motion, ironing is a sliding motion.	263-264, 468-469
5.5.2	Press as you sew (never sew over a seam that hasn't been pressed).	418, 468-469
5.5.3	Use correct temperature for fabric/fiber content.	249, 263-264, 469



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5.5.4	Use steam/moisture if appropriate.	249, 263-264, 429, 469
5.5.5	Use pressing cloth to prevent scorching and/or shine marks.	148, 429, 469
Standard 6: DEMONSTRATE BASIC CONSTRUCTION TECHNIQUES.		
6.1	Complete appropriate seam finishes.	450-451, 453, 511
6.1.1	A seam finish is applied to the raw fabric edges, used to prevent raveling/fraying.	450
6.1.2	Identify terms: zigzagged, serged open, serged closed, clean finished, stitched and pinked.	450-451, 453, 511
6.2	Construct an appropriate casing for the project (1/4" wider than the elastic or draw cord).	482-484
6.3	Construct a patch pocket with mitered corners and reinforced top corners (triangle, horizontal, bar-tack or double row of topstitching).	478-479
6.4	Construct a buttonhole (length of button hole = depth of button + button diameter). *Note: This is the correct mathematical equation.	466
6.5	Attach a button by using a hand needle and thread.	271, 466-467
6.6	Construct a machine-stitched hem.	465, 485
6.7	Demonstrate the ability to follow guide sheet/instructions throughout the project construction.	397-399, 427, 430, 432, 443, 456, 459, 475-477, 481-482, 504
6.8	Complete one or more of the following hand stitches: blind stitch, hemstitch, slipstitch, whipstitch, or ladder stitch.	464-465