Maine Department of Education Career and Technical Education

CTE Intersections with College and Career Readiness Standards-Mathematics

with

Auto Body; CIP: 47.0603
Painting and Refinishing (NATEF)

Painting and Refinishing Framework, Duties, and Tasks	Standards for Mathematical Content; Standards for Mathematical Practice (CCSS)	Criteria for Demonstration of Proficiency (possible but not required; must be determined at the District level)	Maine Learning Results – Guiding Principles And Career and Education Development (optional)
1. Safety Precautions			
a. Identify and take necessary			Guiding Principles
precautions with hazardous			B. A self-directed and lifelong
operations and materials according			learner who:
to federal, state, and local			 Recognizes the need for
regulations.			information and locates
b. Identify safety and personal			and evaluates resources
health hazards according to OSHA			2. Applies knowledge to set
guidelines and the "Right to Know			goals and make informed
Law".			decisions
c. Inspect spray environment and			3. Applies knowledge in new
equipment to ensure compliance			contexts
with federal, state and local			4. Demonstrates initiative
regulations, and for safety and			and independence
cleanliness hazards.			5. Demonstrates flexibility
d. Select and use a NIOSH approved			including the ability to
air-purifying respirator. Inspect			learn, unlearn and relearn
condition and ensure fit and			6. Demonstrates reliability
operation. Perform proper			and concern for quality
maintenance in accordance with			7. Uses interpersonal skills
OSHA Regulation 1910.134 and			to learn and work with
applicable state and local regulation.			individuals from diverse
e. Select and use a NIOSH approved			backgrounds
supplied air (Fresh Air Make-up)			C. A creative and practical
respirator system. Perform proper			problem solver who:

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maintenance in accordance with OSHA Regulation 1910.134 and applicable state and local regulation. f. Select and use the proper personal safety equipment for surface preparation, spray gun and related equipment operation, paint mixing, matching and application, paint defects, and detailing (gloves, suits, hoods, eye and ear protection, etc.).			 Observes and evaluates situations to define problems Uses information and technology to solve problems Perseveres in challenging situations A responsible and involved citizen who: Accepts responsibility for personal decisions and actions Demonstrates ethical behavior and the moral courage to sustain it Demonstrates awareness of personal and community health and wellness CED A1 Self-Knowledge and Self-Concept Students reflect on and/or analyze interests, skills, habits of mind, and experiences to maintain a positive self-concept and

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			to aid them in making career and life decisions. A3 Interpersonal Skills Students demonstrate behaviors that reflect positive interpersonal skills and evaluate successful strategies that improve positive interpersonal skills in ways that lead to success in a variety of school, work, and community settings. B2 Skills for Individual/ Personal Success in the 21st Century Students evaluate strategies to improve skills that lead to lifelong learning and success in the classroom, and the achievement of schoolwork, work and career, and personal life goals. c. Critical thinking skills e. Interpersonal skills C1 The Planning Process
			Students use the planning process to make school-to-

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2. Surface Preparation			school and school-to-work decisions. a. Self-knowledge c. Decision-making skills
a. Inspect, remove, store, and replace exterior trim and components necessary for proper surface preparation.b. Soap and water wash entire	Math.N-Q.A 1: Use units as a way to understand problems and to guide the solution of multistep problems; choose and	Mils – understanding what this measurement is and means. i.e solving the problem of knowing	Guiding Principles B. A self-directed and lifelong learner who: 1. Recognizes the need for information and locates
vehicle; use appropriate cleaner to remove contaminants. c. Inspect and identify substrate, type of finish, surface condition, and film thickness; develop and document a plan for refinishing	interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.	how much product is needed to cover a given substrate. How much paint to cover a panel or how much primer to cover in 3 coats.	and evaluates resources 2. Applies knowledge to set goals and make informed decisions 3. Applies knowledge in new contexts
using a total product system. d. Strip paint to bare substrate (paint removal). e. Dry or wet sand areas to be refinished.	Math.N-Q.A 2: Define appropriate quantities for the purpose of descriptive modeling.		 4. Demonstrates initiative and independence 5. Demonstrates flexibility including the
f. Featheredge damaged areas to be refinished. g. Apply suitable metal treatment or primer in accordance with total product systems. h. Mask and protect other areas that will not be refinished. i. Mix primer, primer-surfacer or	Math.MP2: Reason abstractly and quantitatively.		ability to learn, unlearn and relearn 6. Demonstrates reliability and concern for quality 7. Uses interpersonal skills to learn and work with individuals from

primer-sealer. j. Apply primer onto surface of repaired area. k. Apply two-component finishing filler to minor surface imperfections. l. Dry or wet sand area to which primer-surface has been applied. m. Dry sand area to which two-component finishing filler has been applied. m. Dry sand area to which two-component finishing filler has been applied. n. Remove dust from area to be refinished, including cracks or moldings of adjacent areas. o. Clean area to be refinished using a final cleaning solution. p. Remove, with a tack rag, any dust or lint particles from the area to be refinished. q. Apply suitable sealer to the area being refinished. r. Scuff sand to remove nibs or imperfections from a sealer. s. Apply stone chip resistant coating. t. Restore corrosion-resistant coatings, caulking, and seam sealers to repaired areas. u. Prepare adjacent panels for	Painting and Refinishing Framework, Duties, and Tasks	Standards for Mathematical Content; Standards for Mathematical Practice (CCSS)	Criteria for Demonstration of Proficiency (possible but not required; must be determined at the District level)	Maine Learning Results – Guiding Principles And Career and Education Development (optional)
	j. Apply primer onto surface of repaired area. k. Apply two-component finishing filler to minor surface imperfections. l. Dry or wet sand area to which primer-surfacer has been applied. m. Dry sand area to which two-component finishing filler has been applied. n. Remove dust from area to be refinished, including cracks or moldings of adjacent areas. o. Clean area to be refinished using a final cleaning solution. p. Remove, with a tack rag, any dust or lint particles from the area to be refinished. q. Apply suitable sealer to the area being refinished. r. Scuff sand to remove nibs or imperfections from a sealer. s. Apply stone chip resistant coating. t. Restore corrosion-resistant coatings, caulking, and seam sealers to repaired areas.			 C. A creative and practical problem solver who: 1. Observes and evaluates situations to define problems 2. Frames questions, makes predictions and designs data/information collection and analysis strategies 3. Identifies patterns, trends and relationships that apply to solutions 4. Generates a variety of solutions, builds a case for a best response and critically evaluates the effectiveness of the response 5. Sees opportunities, finds resources and seeks results 6. Uses information and technology to solve problems 7. Perseveres in

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v. Identify the types of rigid, semirigid or flexible plastic parts to be refinished; determine the materials, preparation, and refinishing procedures. w. Identify aluminum parts to be refinished; determine the materials, preparation, and refinishing procedures.			informed thinker who: 4. Applies systems thinking to understand the interaction and influence of related parts on each other and on outcomes CED A1 Self-Knowledge and Self-Concept Students reflect on and/or analyze interests, skills, habits of mind, and experiences to maintain a positive self-concept and to aid them in making career and life decisions. A3 Interpersonal Skills Students demonstrate behaviors that reflect positive interpersonal skills and evaluate successful strategies that improve positive interpersonal skills in ways that lead to success in a variety of school, work, and community settings.
			e. Accepting/giving/using

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			constructive feedback f. Accepting responsibility for personal behavior g. Demonstrating ethical behavior i. Demonstrating safe behavior A4 Career and Life Roles Students demonstrate and evaluate successful strategies for accomplishing tasks, balancing career and life roles, and reducing stress in a variety of school, work, and community settings. C1 The Planning Process Students use the planning process to make school-to- school and school-to-work decisions. a. Self-knowledge c. Decision-making skills
3. Spray Gun and Related Equipment	Operation	1	a comment of the comm
a. Inspect, clean, and determine condition of spray guns and related equipment (air hoses, regulators, air lines, air source, and spray environment).			Guiding Principles B. A self-directed and lifelong learner who: 1. Recognizes the need for information and locates

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b. Check and adjust spray gun operation for HVLP (high volume, low pressure) or compliant spray guns. c. Set-up (fluid needle, nozzle, and cap), test, and adjust spray gun using fluid, air, and pattern control valves. d. Demonstrate an understanding of the operation of pressure spray equipment.			 and evaluates resources Applies knowledge to set goals and make informed decisions Applies knowledge in new contexts Demonstrates initiative and independence Demonstrates flexibility including the ability to learn, unlearn and relearn Demonstrates reliability and concern for quality Uses interpersonal skills to learn and work with individuals from diverse backgrounds A creative and practical problem solver who: Observes and evaluates situations to define problems Frames questions, makes predictions and designs data/information collection and analysis strategies Identifies patterns, trends and relationships that

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			apply to solutions 4. Generates a variety of solutions, builds a case for a best response and critically evaluates the effectiveness of the response 5. Sees opportunities, finds resources and seeks results 6. Uses information and technology to solve problems 7. Perseveres in challenging situations E. An integrative and informed thinker who: 4. Applies systems thinking to understand the interaction and influence of related parts on each other and on outcomes
			CED A1 Self-Knowledge and Self- Concept Students reflect on and/or analyze interests, skills, habits of mind, and

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			experiences to maintain a positive self-concept and to aid them in making career and life decisions. A3 Interpersonal Skills Students demonstrate behaviors that reflect positive interpersonal skills and evaluate successful strategies that improve positive interpersonal skills in ways that lead to success in a variety of school, work, and community settings. i. Demonstrating safe behavior C1 The Planning Process Students use the planning process to make school-to-school and school-to-work decisions. a. Self-knowledge c. Decision-making skills
4. Paint Mixing, Matching, and Apply			
a. Identify type and color code by	Math.N-Q.A.2: Define	By using panel size students	Guiding Principles
manufacturer's vehicle information	appropriate quantities for the	determine how much product to	B. A self-directed and lifelong
label.	purpose of descriptive	mix to minimize waste of a given	learner who:
b. Shake, stir, reduce,	modeling.	product. i.e primers, paints ect.	1. Recognizes the need for

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catalyze/activate, and strain refinish materials. c. Apply finish using appropriate spray techniques (gun arc, gun angle, gun distance, gun speed, and spray pattern overlap) for the finish being applied. d. Apply selected product on test and let-down panel; check for color match. e. Apply single stage topcoat. f. Apply basecoat/clearcoat for panel blending or panel refinishing. g. Apply basecoat/clearcoat for overall refinishing. h. Remove nibs or imperfections from basecoat. i. Refinish rigid or semi-rigid, and plastic parts. j. Refinish flexible plastic parts. k. Apply multi-stage coats for panel blending or overall refinishing. l. Identify and mix paint using a formula. m. Identify poor hiding colors; determine necessary action. n. Tint color using formula to achieve a blendable match.	Quantities N-Q: Reason quantitatively and use units to solve problems. Geometry- Math.G-MG.A.1: Give an informal argument for the formulas for the circumference of a circle, area of a circle, volume of a cylinder, pyramid, and cone. Geometry- Math.G-MG.A.2: Give an informal argument using Cavalieri's principle for the formulas for the volume of a sphere and other solid figures. Geometry- Math.G-MG.A.3: Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems.	Students can determine cost of a given refinish job, how much product to order. Students can also realize the cost of mistakes and waste, as this cannot be passed on to the customer, it is absorbed by the shop. Students will use surface area and grid method to determine amount of product needed.	information and locates and evaluates resources 2. Applies knowledge to set goals and make informed decisions 3. Applies knowledge in new contexts 4. Demonstrates initiative and independence 5. Demonstrates flexibility including the ability to learn, unlearn and relearn 6. Demonstrates reliability and concern for quality 7. Uses interpersonal skills to learn and work with individuals from diverse backgrounds C. A creative and practical problem solver who: 1. Observes and evaluates situations to define problems 2. Frames questions, makes predictions and designs data/information

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to achieve a blendable match.			collection and analysis strategies 3. Identifies patterns, trends and relationships that apply to solutions 4. Generates a variety of solutions, builds a case for a best response and critically evaluates the effectiveness of the response 5. Sees opportunities, finds resources and seeks results 6. Uses information and technology to solve problems 7. Perseveres in challenging situations E. An integrative and informed thinker who: 2. Evaluates and synthesizes information from multiple sources 4. Applies systems thinking to understand the interaction and influence of related parts on each other and on outcomes

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			A1 Self-Knowledge and Self-Concept Students reflect on and/or analyze interests, skills, habits of mind, and experiences to maintain a positive self-concept and to aid them in making career and life decisions. A4 Career and Life Roles Students demonstrate and evaluate successful strategies for accomplishing tasks, balancing career and life roles, and reducing stress in a variety of school, work, and community settings. b. Goal-setting c. Resource management C1 The Planning Process Students use the planning process to make school-to-school and school-to-work decisions. a. Self-knowledge C2 Decision- Making

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5. Paint Defects – Causes and Cures			Students determine and apply effective decision-making strategies for accomplishing short-term and long-term goals related to school-to-school and school-to-work decisions.
a. Identify blistering (raising of the paint surface, air entrapment); determine the cause(s) and correct the condition. b. Identify blushing (milky or hazy formation); determine the cause(s) and correct the condition. c. Identify a dry spray appearance in the paint surface; determine the cause(s) and correct the condition. d. Identify the presence of fish-eyes (crater-like openings) in the finish; determine the cause(s) and correct the condition. e. Identify lifting; determine the cause(s) and correct the condition.			Guiding Principles B. A self-directed and lifelong learner who: 1. Recognizes the need for information and locates and evaluates resources 2. Applies knowledge to set goals and make informed decisions 3. Applies knowledge in new contexts 4. Demonstrates initiative and independence 5. Demonstrates flexibility including the
f. Identify clouding (mottling and streaking in metallic finishes); determine the cause(s) and correct the condition. g. Identify orange peel; determine			 ability to learn, unlearn and relearn Demonstrates reliability and concern for quality

cause(s) and correct the condition. j. Identify sags and runs in paint surface; determine the cause(s) and correct the condition. k. Identify sanding marks or sandscratch swelling; determine the cause(s) and correct the condition. l. Identify contour mapping/edge mapping while finish is drying; determine the cause(s) and correct the condition. m. Identify color difference (off- shade); determine the cause(s) and correct the condition. n. Identify tape tracking; determine the cause(s) and correct the condition. o. Identify low gloss condition; determine the cause(s) and correct the condition. o. Identify low gloss condition; determine the cause(s) and correct the condition. o. Identify low gloss condition; determine the cause(s) and correct the condition. o. Identify low gloss condition; determine the cause(s) and correct problems	Painting and Refinishing Framework, Duties, and Tasks	Standards for Mathematical Content; Standards for Mathematical Practice (CCSS)	Criteria for Demonstration of Proficiency (possible but not required; must be determined at the District level)	Maine Learning Results – Guiding Principles And Career and Education Development (optional)
p. Identify poor adhesion; determine the cause(s) and correct the condition. situations E. An integrative and informed thinker who:	condition. h. Identify overspray; determine the cause(s) and correct the condition. i. Identify solvent popping in freshly painted surface; determine the cause(s) and correct the condition. j. Identify sags and runs in paint surface; determine the cause(s) and correct the condition. k. Identify sanding marks or sandscratch swelling; determine the cause(s) and correct the condition. l. Identify contour mapping/edge mapping while finish is drying; determine the cause(s) and correct the condition. m. Identify color difference (off-shade); determine the cause(s) and correct the condition. n. Identify tape tracking; determine the cause(s) and correct the condition. o. Identify low gloss condition; determine the cause(s) and correct the condition. p. Identify poor adhesion; determine the cause(s) and correct			 problem solver who: Observes and evaluates situations to define problems Frames questions, makes predictions and designs data/information collection and analysis strategies Identifies patterns, trends and relationships that apply to solutions Generates a variety of solutions, builds a case for a best response and critically evaluates the effectiveness of the response Sees opportunities, finds resources and seeks results Uses information and technology to solve problems Perseveres in challenging situations An integrative and

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q. Identify paint cracking (shrinking, splitting, crowsfeet or line-checking, micro-checking, etc.); determine the cause(s) and correct the condition. r. Identify corrosion; determine the cause(s) and correct the condition. s. Identify dirt or dust in the paint surface; determine the cause(s) and correct the condition. t. Identify water spotting; determine the cause(s) and correct the condition. u. Identify finish damage caused by bird droppings, tree sap, and other natural causes; correct the condition.			 Gains and applies knowledge across disciplines and learning contexts and to real-life situations with and without technology Evaluates and synthesizes information from multiple sources Applies ideas across disciplines Applies systems thinking to understand the interaction and influence of related parts on each other and on outcomes
v. Identify finish damage caused by airborne contaminants (acids, soot, rail dust, and other industrial-related			CED A1 Self-Knowledge and Self-
causes); correct the condition. w. Identify die-back conditions (dulling of the paint film showing haziness); determine the cause(s) and correct the condition. x. Identify chalking (oxidation); determine the cause(s) and correct the condition. y. Identify bleed-through (staining); determine the cause(s) and correct			Concept Students reflect on and/or analyze interests, skills, habits of mind, and experiences to maintain a positive self-concept and to aid them in making career and life decisions. A4 Career and Life Roles Students demonstrate and

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the condition. z. Identify pin-holing; determine the cause(s) and correct the condition. aa. Identify buffing-related imperfections (swirl marks, wheel burns); correct the condition. bb. Identify pigment flotation (color change through film build); determine the cause(s) and correct the condition.			evaluate successful strategies for accomplishing tasks, balancing career and life roles, and reducing stress in a variety of school, work, and community settings. b. Goal-setting c. Resource management C1 The Planning Process Students use the planning process to make school-to-school and school-to-work decisions. a. Self-knowledge C2 Decision- Making Students determine and apply effective decision-making strategies for accomplishing short-term and long-term goals related to school-to-school and school-to-work decisions.
6. Final Detail			
a. Apply decals, transfers, tapes, woodgrains, pinstripes (painted and taped), etc.b. Buff and polish finish to remove	Math.N-Q.A 1: Use units as a way to understand problems and to guide the solution of multistep problems; choose and	Mil thickness when buffing	Guiding Principles – B. A self-directed and lifelong learner who: 1. Recognizes the need for

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defects as required. c. Clean interior, exterior, and glass. d. Clean body openings (door jambs and edges, etc.). e. Remove overspray. f. Perform pre-delivery detail and inspection.	interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays. Math.N-Q.A 2: Define appropriate quantities for the purpose of descriptive modeling. Math.N-Q.A 3: Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. Math.G-MG.A.3: Apply geometric methods to solve design problems.	Symmetry and measurement when applying stripes and decals.	information and locates and evaluates resources 2. Applies knowledge to set goals and make informed decisions 3. Applies knowledge in new contexts 4. Demonstrates initiative and independence 5. Demonstrates flexibility including the ability to learn, unlearn and relearn 6. Demonstrates reliability and concern for quality 7. Uses interpersonal skills to learn and work with individuals from diverse backgrounds 8. A self-directed and lifelong learner who: 2. Applies knowledge to set goals and make informed decisions 4. Demonstrates initiative and independence 6. Demonstrates reliability

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			and concern for quality D. A responsible and involved citizen who: 2. Accepts responsibility for personal decisions and actions 3. Demonstrates ethical behavior and the moral courage to sustain it 4. Understands and respects diversity
			CED A1 Self-Knowledge and Self-Concept Students reflect on and/or analyze interests, skills, habits of mind, and experiences to maintain a positive self-concept and to aid them in making career and life decisions. A3 Interpersonal Skills Students demonstrate behaviors that reflect positive interpersonal skills and evaluate successful strategies that

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			interpersonal skills in ways that lead to success in a variety of school, work, and community settings. A4 Career and Life Roles Students demonstrate and evaluate successful strategies for accomplishing tasks, balancing career and life roles, and reducing stress in a variety of school, work, and community settings. B2 Skills for Individual/Personal Success in the 21st Century Students evaluate strategies to improve skills that lead to lifelong learning and success in the classroom, and the achievement of schoolwork, work and career, and personal life goals. c. Critical thinking skills C1 The Planning Process Students use the planning process to make school-to-
			school and school-to-work

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			decisions. a. Self-knowledge
			C2 Decision- Making
			Students determine and apply
			effective decision-making
			strategies for accom-
			plishing short-term and
			long-term goals related to
			school-to-school and
			school-to-work decisions.