

COURSE SYLLABUS

LAST REVIEW	Fall 2022
COURSE TITLE	Residential Painting
COURSE NUMBER	BEMT 0145
DIVISION	Career and Technical Education
DEPARTMENT	BEMT
CIP CODE	46.0401
CREDIT HOURS	2
CONTACT HOURS/WEEK	Class: .5 Lab: 3

PREREQUISITES BEMT 0101

COURSE DESCRIPTION

This is a technical course on interior and exterior painting. The student will be required to know the technical aspects of a professional paint job, along with the application of the technical aspects. Students will learn the professional methods of how to complete an interior or exterior paint job. The students will also require training in handling extension and step ladders, along with their OSHA 10, and ladder safety course. This course will require the student to complete extensive hands-on training, written assignments, estimates, and a final exam.

PROGRAM LEARNING OUTCOMES

Students will demonstrate an adherence to safety standards and proficiency in the skills necessary for carpentry basics, and both the construction of new or evaluation/repair of existing framing structures, floors, walls, dry wall, painting, windows, doors, stairs, wood joints, and moldings.

TEXTBOOKS

<http://kckccbookstore.com/>

METHODS OF INSTRUCTION

A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE

I. Estimating material

- A. Figure square feet of wall space.
- B. Figure Linear feet of trim, and door count.
- C. Figure square feet of ceiling space.
- D. Calculate amount of paint, and write formal estimate.
- II. Preparation of painting surfaces
 - A. Vacuum all dust and clear all painting surfaces.
 - B. Prepare all trim with caulking and putty.
 - C. Repair any wall, and ceiling surfaces.
 - D. Prime all new wall and ceiling repairs.
 - E. Prime any bare wood, stains, or markings.
- III. Mix all paint
- IV. Selecting Paint Sheen
- V. Painting order
 - A. Vacuum all dust and clear all painting surfaces
 - B. Paint all ceilings first.
 - C. Paint all trim, doors and window frames.
 - D. Mask all trim edges properly and seat the tape.
 - E. Paint all wall surfaces
- VI. Clean up
 - A. Properly cleaning a paint brush
 - B. Properly cleaning a roller pad
 - C. Properly cleaning all paint tools and paint sprayer
- VII. Exterior Application
 - A. Temperature of Painting
 - B. Weather Conditions
 - C. Painting Method
 - D. Trim Out
 - E. Roller Application
 - F. Sprayer Application
- VIII. Clean-Up Procedures
 - A. Clean-Up for Tools Used in Oil Paint
 - B. Cleaning Tools Used in Latex Paint
- IX. Interior Application
 - A. Understanding the Paint
 - B. Choosing a Roller or Brush
 - C. Paint the Ceiling First
 - D. Using a Brush with Interior Paint for Walls
 - E. Using a Roller for Walls
 - F. Protecting Window Glass
 - G. Painting a Window
 - H. Painting a Door
 - I. Paint Baseboard
- X. Diagnosing Paint Problems

- A. Moisture
 - B. Surface Preparation
 - C. Under Eave Peeling
 - 1. Scrape
 - 2. Wash
 - 3. Rinse
 - 4. Sand
- XI. Environmental Sustainability
- A. Environmentally safe waste disposal.
 - B. Life cycle analysis.
 - C. Recycled material.
 - D. Low VOC emissions.
 - E. New “green” materials.
 - F. New “green” methods and practices.
 - G. “Low impact” designs.

COURSE LEARNING OUTCOMES AND COMPETENCIES

Upon successful completion of this course, the student will:

- A. Describe and identify preparing the surface.
 - 1. Understand and demonstrate types of brushes.
 - 2. Understand and perform proper brushing technique.
 - 3. Identify and demonstrate uses of brushes.
 - 4. Understand and demonstrate pad application.
 - 5. Understand and perform roller application.
 - 6. Identify and demonstrate proper clean up.
- B. Describe and identify exterior application.
 - 7. Understand and demonstrate correct exterior prep.
 - 8. Understand and perform a stop and re-start properly.
 - 9. Identify and demonstrate how weather effects painting.
 - 10. Understand and demonstrate trimming out correctly.
 - 11. Understand and perform brush sizing properly.
 - 12. Identify and demonstrate proper roller selection.
- C. Describe and identify clean-up procedures.
 - 13. Understand and demonstrate uses for Acetone.
 - 14. Understand and perform a cleanup with paint thinner.
 - 15. Identify and demonstrate wiping down with lacquer thinner properly.
 - 16. Understand and demonstrate cleaning oil based paint successfully.
 - 17. Understand and perform correct brush cleaning.
 - 18. Identify and demonstrate correct roller cleaning.
- D. Describe and identify interior application.
 - 19. Understand and demonstrate proper brush selection.

20. Understand and perform proper roller selection.
 21. Identify and demonstrate proper prep.
 22. Understand and demonstrate ceiling painting.
 23. Understand and perform door painting technique.
 24. Identify and demonstrate how to clean latex brushes.
- E. Describe and identify diagnosing paint problems.
25. Understand and demonstrate how to correct peeling.
 26. Understand and perform proper paint scraping.
 27. Identify and demonstrate moisture problems.
 28. Understand and demonstrate how to properly correct cracking paint.
 29. Understand and perform how to correct blistering.
 30. Identify and demonstrate how to correct wrinkling.
- F. Describe and identify moisture.
31. Understand and demonstrate moisture detection techniques.
 32. Understand and perform a moisture test.
 33. Identify and demonstrate how to identify mildew.
 34. Understand and demonstrate proper mildew removal.
 35. Understand and perform a mildew scrub.
 36. Identify and demonstrate how to seal over water stains.
- G. Describe and identify painting gutters and downspouts.
37. Understand and demonstrate correct gutter paint prep,
 38. Understand and perform how to properly etch aluminum gutter.
 39. Identify and demonstrate how to correctly strip galvanized gutter.
 40. Understand and demonstrate how to properly apply paint to aluminum.
 41. Understand and perform proper caulking to gutters.
 42. Identify and demonstrate safe cleanup practices.
- H. Describe and identify estimating paint coverage.
43. Understand and demonstrate how to calculate square footage.
 44. Understand and perform an area measurement properly.
 45. Identify and demonstrate correctly paint coverage per gallon.
 46. Understand and demonstrate accurately what accessories will be needed.
 47. Understand and perform a cost per foot estimate correctly.
 48. Identify and demonstrate why quality paint is cheaper.
- I. Describe and identify applying paint to metal.
49. Understand and demonstrate the effect of important metal conditions.
 50. Understand and perform a proper surface check.
 51. Identify and demonstrate proper prep methods.
 52. Understand and demonstrate the correct uses of primer.
 53. Understand and perform an adhesion test correctly.

54. Identify and demonstrate how to top coat properly.
- J. Describe and identify masonry coating.
- 55. Understand and demonstrate salt loss on a masonry wall correctly.
 - 56. Understand and perform proper surface prep.
 - 57. Identify and demonstrate masonry problems accurately.
 - 58. Understand and demonstrate proper masonry caulking.
 - 59. Understand and perform a proper top coat application.
 - 60. Identify and demonstrate how to choose additive binders.
- K. Describe and identify environmental sustainability.
- 61. Describe waste disposal methods for this industry according to EPA and industry guidelines.
 - 62. Describe the process of life cycle analysis in this industry based on industry guidelines.
 - 63. Identify recycled materials by label and industry practice.
 - 64. Define “low emission” and give two examples.
 - 65. Identify new “green” materials now being introduced or currently used in this industry.
 - 66. Describe new “green” practices and methods being instituted or currently employed within this industry.
 - 67. Identify and explain the term “low Impact” as it relates to the environment.

ASSESSMENT OF COURSE LEARNING OUTCOMES AND COMPETENCIES

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor’s course information document.

COLLEGE POLICIES AND PROCEDURES

Student Handbook

<https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf>

College Catalog

<https://www.kckcc.edu/academics/catalog/index.html>

College Policies and Statements

<https://www.kckcc.edu/about/policies-statements/index.html>

Accessibility and Accommodations

<https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html>.