SYLLABUS

DATE OF LAST REVIEW: 02/2013
CIP CODE: 46.0201
SEMESTER: Departmental Syllabus
COURSE TITLE: Drywall Level 1-2
COURSE NUMBER: CONS0112
CREDIT HOURS: 3
INSTRUCTOR: Departmental Syllabus
OFFICE LOCATION: Departmental Syllabus
OFFICE HOURS: Departmental Syllabus
TELEPHONE: Departmental Syllabus
EMAIL: KCKCC issued email accounts are the official means for electronically communicating with our students.

PREREQUISITES: KBOR approved Core Curriculum.
OSHA 10. Math Level 3 Recommended

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore, http://www.kckccbookstore.com/, for the required tests for your particular class.

COURSE DESCRIPTION: This is the course in Drywall. It is in alignment with NCCER (selected modules) and the Kansas Board of Regents. The course topics include: Environmental sustainability, Orientation to the Trade, Construction Materials and Methods, Thermal and Moisture Protection, Drywall Installation, and Drywall Finishing.

METHOD OF INSTRUCTION: A variety of instructional methods may be used depending on content area. They may include but are not limited to lecture, multimedia, cooperative/collaborative learning, demonstrations, labs, on-the-job, internships, performance tests, and other learning experiences outside the classroom. Methodology will be selected to best meet student needs.
COURSE OUTLINE:

I. MODULE 45101-07 – INTRODUCTION TO THE TRADE
   A. Drywall trade.
   B. Aptitudes, behaviors, and skills.
   C. Training opportunities.
   D. Career and entrepreneurial opportunities.
   E. Responsibilities.
   F. Personal characteristics.
   G. Safety.

II. MODULE 45102-07 – CONSTRUCTION MATERIALS AND METHODS
   A. Common types of residential building materials.
   B. Structural components.
   C. Commercial building materials.
   D. Residential and commercial construction.
   E. Construction of a frame residence.
   F. Common terms.
   G. Suspended ceilings.
   H. Types of gypsum board.
   I. Fire stopping systems.
   J. Code requirements.

III. MODULE 45103-07 – THERMAL AND MOISTURE PROTECTION
    A. Insulation.
    B. Types of insulation material.
    C. Insulation for a structure.
    D. Selected insulation materials.
    E. Moisture control.
    F. Vapor barriers.
    G. Waterproofing.
    H. Air infiltration.
    I. Building wraps.

IV. MODULE 45104-07 – DRYWALL INSTALLATION
    A. Types of drywall.
    B. Specific installations.
    C. Fasteners for drywall.
    D. Fastener schedules.
    E. Single-layer and multi-layer drywall installations including:
       1. Nails
2. Drywall screws
F. Gypsum drywall on steel studs.
G. Soundproofing.
H. Estimate materials.

V. MODULE 45105-07 – DRYWALL FINISHING
A. Six levels of finish.
B. Hand tools.
C. Automatic tools.
D. Identify the materials used in drywall including:
   E. Compounds
   F. Joint reinforcing tapes
   G. Trim material
   H. Textures and coatings
   I. Hand tools.
   J. Types of problems.
   K. Patching damaged drywall.

VI. 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.

EXPECTED LEARNER OUTCOMES:
A. Module 45101-07. The student will be able to identify and describe the trade,
   characteristics, safety, training and careers.
B. Module 45102-07. The student will be able to identify and describe construction
   materials and methods, terms, and safety.
C. Module 45103-07. The student will be able to identify and describe thermal and
   moisture protection, types of insulation, and waterproofing.
D. Module 45104-07. The student will be able to identify and describe the types of drywall,
   installation, and fasteners.
E. Module 45105-07. The student will be able to identify and describe drywall finishing
   methods, tools, joints and types of damage.
F. The student will identify and describe sound environmental practices for drywall,
   including waste disposal, life cycle analysis, green practices and low impact.
COURSE COMPETENCIES:

Module 45101-07. The student will be able to identify and describe the trade, characteristics, safety, training and careers.

1. The student will be able to describe the history of the drywall trade.
2. The student will be able to identify the aptitudes, behaviors, and skills needed to be a successful drywall specialist.
3. The student will be able to identify the training opportunities within the drywall trade.
4. The student will be able to identify the career and entrepreneurial opportunities within the drywall trade.
5. The student will be able to identify the responsibilities of a person working in the construction industry.
6. The student will be able to state the personal characteristics of a professional.

Module 45102-07. The student will be able to identify and describe construction materials and methods, terms, and safety.

7. The student will be able to describe the composition and uses of the common types of residential building materials.
8. The student will be able to identify the major structural components of a residential building.
9. The student will be able to describe the composition and uses of the common types of commercial building materials.
10. The student will be able to describe common methods of residential and commercial construction.
11. The student will be able to state the major steps in the construction of a frame residence.
12. The student will be able to explain common terms used in construction.
13. The student will be able to identify various types of suspended ceilings.
14. The student will be able to identify the various types of gypsum board and their applications.
15. The student will be able to describe types of firestopping systems.
16. The student will be able to describe the construction of walls to meet code requirements for fire and sound ratings.

Module 45103-07. The student will be able to identify and describe thermal and moisture protection, types of insulation, and waterproofing.

17. The student will be able to describe the requirements for insulation.
18. The student will be able to describe the characteristics of various types of insulation material.
19. The student will be able to calculate the required amounts of insulation for a structure.
20. The student will be able to install selected insulation materials.
21. The student will be able to describe the requirements for moisture control and ventilation.
22. The student will be able to install selected vapor barriers.
23. The student will be able to describe various methods of waterproofing.
24. The student will be able to describe air infiltration control requirements.
25. The student will be able to install selected building wraps.

*Module 45104-07. The student will be able to identify and describe the types of drywall, installation, and fasteners.*

26. The student will be able to identify the different types of drywall and their uses.
27. The student will be able to Select the type and thickness of drywall required for specific installations.
28. The student will be able to select fasteners for drywall installation.
29. The student will be able to explain the fastener schedules for different types of drywall installations.
30. The student will be able to perform single-layer and multi-layer drywall installations using different types of fastening systems, including:
   - Nails
   - Drywall screws
31. The student will be able to install gypsum drywall on steel studs.
32. The student will be able to explain how soundproofing is achieved in drywall installations.
33. The student will be able to estimate material quantities for a drywall installation.

*Module 45105-07. The student will be able to identify and describe drywall finishing methods, tools, joints and types of damage.*

34. The student will be able to state the differences between the six levels of finish established by industry standards and distinguish a finish level by observation.
35. The student will be able to identify the hand tools used in drywall finishing and demonstrate the ability to use these tools.
36. The student will be able to identify the automatic tools used in drywall finishing.
37. The student will be able to identify the materials used in drywall finishing and state the purpose and use of each type of material, including:
   - Compounds
   - Joint reinforcing tapes
   - Trim material
   - Textures and coatings
38. The student will be able to recognize various types of problems that occur in drywall finishes; identify the causes and correct methods for solving each type of problem.
39. The student will be able to patch damaged drywall.
The student will identify and describe sound environmental practices for drywall, including waste disposal, life cycle analysis, green practices and low impact

40. The student will be able to describe waste disposal methods for this industry according to EPA and industry guidelines.
41. The student will be able to describe the process of life cycle analysis in this industry based on industry guidelines.
42. The student will be able to identify recycled materials by label and industry practice.
43. The student will be able to define “low emission” and give two examples.
44. The student will be able to identify new “green” materials now being introduced or currently used in this industry.
45. The student will be able to describe new “green” practices and methods being instituted or currently employed within this industry. The student will be able to identify and explain the term “low Impact” as it relates to the environment.

ASSESSMENT OF LEARNER OUTCOMES:
Student progress is evaluated by means that include, but not limited to, exams, written assignments, performance tests, and class participation.

SPECIAL NOTES:
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college’s policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the Director of the Academic Resource Center in Rm. 3354 or call (913) 288-7670.