SYLLABUS

DATE OF LAST REVIEW: 07/23/14
CIP CODE: 47.0106
SEMESTER: Departmental Syllabus
COURSE TITLE: Gas and Electric Clothes Dryers/Stack Laundry-Domestic/Commercial
COURSE NUMBER: MAPR0247
CREDIT HOURS: 3
INSTRUCTOR: Departmental Syllabus
OFFICE LOCATION: Departmental Syllabus
OFFICE HOURS: Departmental Syllabus
TELEPHONE: Departmental Syllabus
EMAIL: Departmental Syllabus

KCKCC-issued email accounts are the official means for electronically communicating with our students.

PREREQUISITES: None

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

COURSE DESCRIPTION:
This course provides instruction in techniques used to obtain an understanding of the process of removing moisture from the clothing, the dryer, and the structure where the unit is located. This course will teach proper gas/electrical connecting, gas ignition systems, temperature/electrical controls, disassembly, drive motor functions, air flow, venting and parts replacement. Customer service, repair order write-up, service and parts manual usage, parts ordering and follow through will be discussed and practiced. Upon successful completion of this course, the student should be able to utilize, on-line, and parts ordering software. This course will teach invoice accounting, parts labeling, retail price calculation, packaging and parts distribution systems.
METHOD 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, and panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE:

I. Gas Dryer Systems
   A. Ignition types
   B. Manifold/Regulator/Burner
   C. Temperature Control
   D. Control Circuit boards/Timers
   E. Ventilation systems
   F. Drive Motors
   G. Support Rollers/Pulleys
   H. General Maintenance

II. Electric Dryer System
    A. Heating Elements
    B. Temperature Control
    C. Control Circuit Boards/Timers
    D. Stack Laundry Systems
    E. General Maintenance

III. Schematic
    A. Gas Dryers
    B. Electric Dryers

IV. Introducing Parts Research and Ordering Systems
    A. Parts are critical
    B. Accuracy
    C. Pictorial Diagrams
    D. Names/Numbers can change
    E. On-line Research
    F. Parts Manuals/Microfiche
    G. Inventory Management
    H. Worksheet Parts list
    I. Manuals

V. Competency Evaluations

EXPECTED LEARNER OUTCOMES:
A. The student will be able to diagnosis electrical failures of load and power passing devices.
B. The student will be able to measure temperatures.
C. The student will be able to disassemble and reassemble various makes and models of laundry dryers.
D. The student will be able to remove and replace motors, switches, touch pads, and control circuit boards, and heating elements.
E. The student will be able to understand heat transfer.
F. The student will be able to remove and replace support rollers, tension pulleys and belts.

COURSE COMPETENCIES:

*The student will be able to diagnose electrical failures of load and power passing devices.*
1. The student will be able to diagnose electrical failures of Control circuit boards
2. The student will be able to diagnose electrical failures of Ignition systems
3. The student will be able to diagnose electrical failures of Drive Motors
4. The student will be able to diagnose electrical failures of Timer switches
5. The student will be able to diagnose electrical failures of Thermistors
6. The student will be able to diagnose electrical failures of Thermal cutouts
7. The student will be able to diagnose electrical failures of Door switches
8. The student will be able to diagnose electrical failures of Heating elements

*The student will be able to measure incoming and outgoing temperatures.*
9. The student will be able to measure incoming and outgoing temperatures

*The student will be able to disassemble and reassemble various makes and models of laundry dryers.*
10. The student will be able to disassemble and reassemble front load, stack, top load, laundry dryers.

*The student will be able to remove and replace motors, switches, touch pads, and control circuit boards, heating elements.*
11. The student will be able to remove and replace motors, switches, touch pads, and control circuit boards, heating elements.

*The student will be able to understand heat transfer.*
12. The student will be able to define heat transfer.

*The student will be able to remove and replace support rollers, tension pulleys and belts.*
13. The student will be able to remove and replace support rollers, tension pulleys and belts.

*The student should be able to interpret appliance parts manuals*
14. The student should be able to identify specific parts and components as provided by a mechanical drawing.

*The student should be able to accurately determine part numbers by drawing reference number.*
15. The student should be able to accurately determine part numbers by drawing reference number.

*The student should be able to maintain Access database of shop stock parts.*
16. The student should be able to utilize Microsoft Access program to add to and expend Shop parts inventory.
The student should be able to navigate on-line web based parts research/ordering software

17. The student should be able to acquire part numbers utilizing On-line assets provided via the internet.

The student should be able to label parts received and distribute replacement parts to live work.

18. The student should be able to label parts received and distribute replacement parts to live work.

The student should be able to interpret parts distributor invoice, and backorder status.

19. The student should be able to report part status accurately bases on invoice information.
20. The student should be able to identify dealer vs. retail pricing
21. The student should be able to calculate prices based on markup percentages

ASSESSMENT OF LEARNER OUTCOMES: Student progress is evaluated by means that include, but are not limited to, exams, written assignments, 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.

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