SYLLABUS

DATE OF LAST REVIEW: 02/2013
CIP CODE: 47.0106
SEMESTER: Departmental Syllabus
COURSE TITLE: Gas and Electric Wall Ovens Domestic/Professional
COURSE NUMBER: MAPR0205
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: None

COURSE DESCRIPTION: The purpose of this course is to obtain an understanding of the process of heat transfer from the heat source through the food product, and the importance of accurate heat control. This course will teach proper gas/electrical connecting, gas ignition systems, temperature/electrical controls, disassembly, oven calibration, proper flame adjustment, and self clean functions. Student will be taught the safe use of an oven dolly for the removal of a built in wall oven. Customer service, repair order write-up, service and parts manual usage, parts ordering and follow through will be discussed and practiced.

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 Oven Systems
   A. Ignition types
   B. Burners Bake & Broil
   C. Temperature Control
   D. Control Circuit boards
   E. Calibration
   F. Door systems
   G. General Maintenance
II. Electric Oven Systems
III. Sequence of Operations
IV. Convection Heating
V. Heating
VI. Temperature Control
VII. Control Circuit Boards
VIII. General Maintenance
IX. Schematics
   H. Gas Ovens
   I. Electric Ovens
   J. Warming drawers
X. Competency Evaluations

EXPECTED LEARNER OUTCOMES:
A. The learner should be able to diagnose electrical failures of load and power passing devices.
B. The learner should be able to disassemble and reassemble various makes and models of wall ovens.
C. The learner should be able to remove and replace switches, touch pads, and control circuit boards, heating elements, and sealed burners.
D. The learner should be able to calibrate temperature controls.
E. The learner should be able to install and uninstall freestanding, drop-in, and cook top ranges.

COURSE COMPETENCIES:

The learner should be able to diagnose electrical failures of load and power passing devices.
1. The learner should be able to diagnose electrical failures of control circuit boards.
2. The learner should be able to diagnose electrical failures of power relay boards.
3. The learner should be able to diagnose electrical failures of clock timers.
4. The learner should be able to diagnose electrical failures of door switches.
5. The learner should be able to diagnose electrical failures of bake and broil elements.
6. The learner should be able to diagnose electrical failures of ignition modules.
7. The learner should be able to diagnose electrical failures of hot surface igniters.
8. The learner should be able to diagnose electrical failures of self-clean latch switch.

The learner should be able to disassemble and reassemble various makes and models of wall ovens
9. The learner should be able to disassemble and reassemble wall oven gas
10. The learner should be able to disassemble and reassemble wall oven electrical.

The learner should be able to remove and replace switches, touch pads, control circuit boards, heating elements, and sealed burners.
11. The learner should be able to remove and replace control circuit boards
12. The learner should be able to remove and replace power relay boards
13. The learner should be able to remove and replace clock timers
14. The learner should be able to remove and replace door switches
15. The learner should be able to remove and replace bake and broil elements
16. The learner should be able to remove and replace ignition modules
17. The learner should be able to remove and replace hot surface igniters
18. The learner should be able to remove and replace self clean latch switch

The learner should be able to calibrate temperature controls.
19. The learner should be able to accurately measure/calculate oven average temperature.

The learner should be able to install and uninstall wall ovens
20. The learner should be able to observe floor care procedures
21. The learner should be able to observe safe practices while using an oven dolly.
22. The learner should be able to disconnect and reconnects gas lines without leakage.
23. The learner should be able to disconnect and reconnects electrical power properly.

ASSESSMENT OF LEARNER OUTCOMES:
Assessment methods may include, but are not limited to, the following: Homework, Assignments, Quizzes, Class Participation, Chapter Tests, and Final Exam. The grading scale and the process for calculating the course grades are to be determined by the individual instructors. This information will be included in each instructor’s syllabus.

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.

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