AC/DC Circuits I

Course Information

Developers: Electrical State Curriculum Committee

Dave Mullins, Hutchinson Community College; John Pendergrass, Hutchinson Community College; Charlie Randazzo, Johnson County Community College; James Byrnes, Johnson County Community College; Richard Fort, Johnson County Community College; Clayton Tatro, Washburn Institute of Technology; Shawn Kincaid, Washburn Institute of Technology; Rob Loftin, Northwest Kansas Technical College; Brenda Chatfield, Northwest Kansas Technical College; Corey Isbell, North Central Kansas Technical College; Seth Flavin, North Central Kansas Technical College; Lucas Hunziger, Highland Community College; Duane Code; Highland Community College; George Crump, Kansas City Kansas Community College; Marlon Thornburg, Coffeyville Community College; Tom Kuhn, Coffeyville Community College; and Stephani Jones-Hines, Salina Area Technical College.

Course reaffirmed Date: 12/12/2017

KBOR Facilitators: April Henry, Charmine Chambers, Susan Hancock

Credit Hours: 4

Description:
AC/DC circuits address the basics of direct and alternating current circuits.

Course Competencies:
1. Describe and apply Ohms, Watts, and Kirchhoff laws
2. Define, demonstrate and apply the characteristics of series, parallel, and combination circuits
3. Explain DC theory concepts
4. Explain AC theory concepts
5. Perform and interpret electrical measurements using industry standard equipment

*Course was originally developed in May of 2013. In December of 2017, faculty reaffirmed the course description and competencies.