- 1 Education and Workforce Development Cabinet
- 2 Kentucky Board of Education
- 3 Department of Education
- 4 (Amendment)
- 5 705 KAR 4:250. Energy Technology Engineering Career Pathway.
- 6 RELATES TO: KRS 158.808
- 7 STATUTORY AUTHORITY: KRS 156.070, 158.808

8 NECESSITY, FUNCTION, AND CONFORMITY: KRS 158.808 requires the Kentucky

- 9 Department of Education to establish an energy technology engineering career pathway. This
- 10 administrative regulation establishes a process for the Kentucky Board of Education to
- administer the energy technology engineering career track program, approve grant recipients,
- 12 and distribute funds to local school districts.
- 13 Section 1. Definition. "Career pathway" means a coherent, articulated sequence of rigorous
- 14 academic and career and technical courses, including dual <u>and articulated</u> credit opportunities,
- 15 leading to a postsecondary degree or industry-recognized certification or licensure, that is
- 16 developed, implemented, and maintained in partnership with secondary and postsecondary
- 17 institutions, businesses, and employers.
- 18 Section 2. Application Process. (1) A Kentucky public school district shall be eligible to apply
- 19 for a grant through a request for proposal process.
- 20 (2) A local school district superintendent shall submit the application and have the approval of
- 21 participating schools' school-based decision making councils and local board of education.

- 1 (3) A grant application shall indicate the fiscal agent as:
- 2 (a) a local board of education for all district comprehensive secondary schools and locally-
- 3 operated Career and Technology Centers.
- 4 (b) the Kentucky Department of Education, Office of Career and Technical Education, for all
- 5 <u>state-operated Area Technology Centers.</u>
- 6 (4) To be eligible for funding, an applicant school shall provide an energy career pathway which
- 7 includes the following components:
- 8 [(a) The Project Lead the Way middle school program Gateway to Technology, with content to
- 9 include energy-related activities and the following Project Lead the Way pre engineering courses
- 10 at the high school level:
- 11 1. Introduction to Engineering Design;
- 12 2. Principles of Engineering;
- 13 3. Digital Electronics;
- 14 4. A specialized course in Energy and Power Technology, or integration of energy-related
- 15 content and applications in each of the Project Lead the way courses. The content shall include]
- 16 (a) <u>Energy</u> [energy]-related applications, including but not limited to, energy and power
- 17 <u>technology, engineering design and development, and energy-related research and applications</u>
- as developed by the Kentucky Department of Education, in consultation with representatives
- 19 from the energy technology industry, the University of Kentucky Center for Applied Energy
- 20 Research, the Council on Postsecondary Education, the Kentucky Community and Technical
- 21 College System, Governor's Office of Energy Policy, local school districts;; [and] [Project Lead
- 22 the Way; and]

- 1 [5. Engineering Design and Development, with content to include energy-related research and
- 2 applications;]
- 3 (b) The opportunity for students to participate in energy related internships or cooperative
- 4 education with energy-related industries or postsecondary education;
- 5 (c) Matching funds that shall be allocated to directly support the implementation of the program,
- 6 which may include other state, federal, local, or nonpublic sources, within the uses and
- 7 conditions set forth by the source of those funds. Previously awarded [Project Lead the Way]
- 8 state grants <u>related to energy and engineering initiatives</u> and local matches shall not be
- 9 considered as matching funds for this program; and
- 10 [(d) Status as a registered Project Lead The Way site prior to disbursement of funds; and]
- 11 (d) [(e)] Submission of seven (7) complete copies of the application plus an electronic copy.
- 12 Section 3. Selection of Grants. (1) The criteria for selection of applications for funding shall be
- 13 based on the appropriateness and quality of the following:
- 14 (a) Process for identifying potential students and estimated enrollment in the Energy Technology
- 15 Engineering Career Pathway;
- 16 (b) An implementation plan, which includes:
- 17 1. Computer availability, including hardware and software commonly used in related fields;
- 18 2. Teacher availability and certification;
- 19 3. Elementary school integration;
- 20 4. Middle school and high school program;
- 21 5. Measures of student progress to be utilized;
- 22 6. Instructional space;
- 23 7. Student Recruitment Plan, including recruitment of traditionally underserved populations;

- 1 8. Business and postsecondary partners and other education partnerships; and
- 2 9. Narrative of budget and timeline, including the efficient and effective use of proposed grant
- 3 <u>funds and matching funds;</u>
- 4 (c) Program evaluation to include annual graduate follow-up surveys; and
- 5 (d) Level of individual school and district commitment for teacher professional development;
- 6 [<del>and</del>
- 7 (e) Narrative of budget and timeline, including the efficient and effective use of proposed grant
- 8 funds and matching funds.]
- 9 (2) An application shall be reviewed as follows:
- 10 (a) A team of evaluators shall review the application; and
- 11 (b) [1.] The Kentucky Department of Education shall approve funding based upon the results of
- 12 the review.
- 13 (c) [2.] Consideration may be given to provide for geographic diversity and the number of
- 14 students to be served in order to maximize the benefits of the program.
- 15 Section 4. Grant Allocations and Requirements. (1) The award size or range of grants shall be
- 16 determined by the Kentucky Department of Education.
- 17 (2) Allowable expenditures include:
- 18 (a) Laboratory equipment and instructional materials necessary for [Project Lead the Way]
- 19 instruction;
- 20 (b) Computers and computer upgrades;
- 21 (c) Computer software required by <u>the curriculum</u> [Project Lead the Way];
- 22 (d) A laptop computer for the instructor;

1	(e) Travel expenses and registration fees for teachers and school administrators, including school
2	counselors, to attend [the] required [Project Lead the Way counselors] conferences and trainings;
3	[(f) Travel expenses and registration fees for teachers to attend the required Project Lead the
4	Way summer teacher institutes;]
5	(f) [(g)] Resources and professional learning [development] for integrating energy activities in
6	the curriculum; and
7	(g) [(h)] Energy related instructional materials and equipment.
8	(3) State grant funds shall not be used to maintain, renovate, or build facilities or pay teacher
9	salaries, but local district expenditures for these purposes may be included as matching funds.
10	(4) Monitoring of awarded grants shall include the following:
11	(a) Fiscal reports submitted semi-annually [quarterly] to the Department of Education; and
12	(b) Annual program evaluation report on the implementation plan that outlines the project
13	accomplishments related to the project need, objectives, and outcomes.