

8710.8020 TEACHERS OF CONSTRUCTION CAREERS.

Subpart 1. **Scope of practice.** A teacher of construction careers is authorized to provide students in grades 7 through 12 instruction that is designed to develop an effective understanding of construction careers including:

- A. academic foundations specific to the construction field;
- B. construction systems and issues;
- C. planning and management in construction;
- D. construction career exploration and investigation; and
- E. safety and environmental practices in the construction field.

Subp. 2. **Licensure requirements.** A candidate for licensure as a teacher of construction careers shall have completed at least a baccalaureate degree from a regionally accredited college or university and a teacher preparation program approved under chapter 8705 including:

- A. the standards of effective practice under part 8710.2000;
- B. the core skills for teachers of career and technical education under part 8710.8000; and
- C. the standards under subpart 3.

Subp. 3. **Subject matter standard.** A candidate for licensure as a teacher of construction careers must complete a preparation program under subpart 2 that must include the candidate's demonstration of the knowledge and skills in items A to E.

A. A teacher of construction careers must demonstrate the knowledge and applications of the academic subject matter required for proficiency within the following areas:

- (1) knowledge of math and measurement;
- (2) skill in technical reading and writing;
- (3) knowledge of geography and the environment as it relates to decision making and planning;
- (4) construction terminology/vocabulary; and
- (5) scientific principles in the planning and construction process.

B. A teacher of construction careers must demonstrate the knowledge and applications of construction systems and issues including:

- (1) use of materials;
- (2) methods/processes in construction;
- (3) use and maintenance of tools and equipment;

(4) understanding of subsystems, such as electrical, plumbing, heating, and landscaping;
and

(5) awareness of emerging products and technologies, such as air quality, energy conservation, and computer-controlled systems.

C. A teacher of construction careers must demonstrate knowledge and application of planning, management, and business operation techniques in:

- (1) scheduling of work crews and tasks;
- (2) financial aspects, such as securing financing, project estimating, and bidding procedures;
- (3) management of human and material resources;
- (4) understanding and interpreting construction documents, such as project plans, schedules, charts, graphs, and change orders; and
- (5) understanding and application of energy and building codes.

D. A teacher of construction careers must demonstrate knowledge of the construction career clusters in the areas of:

- (1) potential career paths found in the construction industry;
- (2) levels of education, licensing/certification requirements, employment opportunities, and workplace environments including team work and potential career growth;
- (3) work-based learning opportunities including job shadowing, internships, and apprenticeship programs;
- (4) labor organizations and their impact on the construction trades; and
- (5) utilizing personal occupational experiences to make construction careers meaningful to the students.

E. A teacher of construction careers must demonstrate knowledge and application of safety and environmental practices including:

- (1) use of tools and equipment;
- (2) personal safety concerns including body mechanics and ergonomics;
- (3) first aid procedures and universal precautions;
- (4) use of energy sources, such as natural gas and electricity;
- (5) Environmental Protection Agency (EPA) regulations, such as proper material disposal, indoor air quality, and lead and asbestos abatement;
- (6) Occupational Safety and Health Administration (OSHA) regulations;

(7) material safety data sheets (MSDS) adhering to hazardous labeling requirements;
and

(8) safety signs, symbols, and labels.

Subp. 4. [Repealed, 47 SR 986]

Statutory Authority: *MS s 122A.09; 122A.18*

History: *26 SR 700; 30 SR 1054; L 2017 1Sp5 art 12 s 22*

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