

Important changes to the

Electric Motor Systems Technician Course Outline

What is changing?

The course outline for electric motor systems technician (EMST) has been revised to keep pace with industry requirements. Changes to the course outline affect all four periods of the EMST apprenticeship program.

These changes update and reorganize the course content to better reflect innovations and industry standards within the trade.

When are the changes happening?

The implementation of the revised course outline starts on September 1, 2017.

Who will be affected?

Apprentices who have completed their first, second and/or third periods are affected, and will be responsible for learning any missed content due to the course outline change.

How has the course content changed in each period?

The major updates for current EMST apprentices to note regarding the EMST course outline appear on the right.

New performance objectives will also be added, existing ones revised and some will move to different periods of technical training. Please refer to the new course outline for a list of all these objectives.

Course Content	New Course Outline	Old Course Outline
Basic electronics	First Period	Fourth Period
Transformer characteristics, operation and maintenance, and single-phase transformers	Second Period	Third Period
Single-phase rectifier circuits and thyristors	Second Period	Fourth Period
Canadian Electric Code	Third Period	Second Period
Phase converters, PLC operation and programming, hazardous locations, and explosion proof motors	Third Period	Fourth Period
DC Machines	Fourth Period	First Period
Metal lathe and DC armatures	Fourth Period	Second Period

The new course outline is available online:

https://tradesecrets.alberta.ca/SOURCES/PDFS/course_outlines/030_outline.pdf

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