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## POWERTRAIN ELECTRIFICATION, CAPSTONE CERTIFICATE

## LEARNING OUTCOMES

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- 1. Develop control systems for electrified powertrain systems.
- 2. Comprehend and be able to analyze working principles of all components in electrified powertrain systems.
- 3. Describe how cells are connected to make modules and packs for power and energy applications
- 4. Develop systems thinking at vehicle level and drive cycle analysis, by recognizing energy flows and losses in a vehicle and identify the main contributors for them, and quantifying losses and impact of specific technologies on vehicle fuel economy