2 ISO 26262Familiarize yourself with core concepts of ISO 26262 and the scope of the standard.

Assignment 01-2� Read chapter 1 (Scope) of the ISO 26262-1:2018 Standard3 and state whether the  
following items fall within its scope? Provide a rationale for your decisions.

**a.** Hazards related to electric shocks caused by a high-voltage battery in a BMW i3s.  
(1 point)

**Answer:**

**This hazard falls within the scope of this standard. Because this standard intends to address possible hazards caused by the malfunctioning behaviour or failure of electronic and electrical systems that are installed in serial production road vehicles to ensure functional safety. Since this hazard is related to electrical system failure and also the standard was published before the BMW i3s was manufactured, it falls within the scope of this ISO standard.**

**b.** Hazards caused by a malfunctioning engine control unit in an Opel Kadett E. (1  
point)

**Answer:**

**This hazard does not fall within the scope of this standard because Opel Kadett E was manufactured before the publication of this ISO standard, hence, it is not covered.**

c. Hazards caused by known performance limitations, e.g. camera for recognizing  
traffic signs gets blinded by sunrise. (1 point)

**Answer:**

**This hazard does not fall within the scope of this ISO standard because it emanates from a system limitation rather than a system malfunction. This is a “safety of the intended functionality” (SOTIF), which falls under ISO/PAS 21448.**