A203-Writing Requirements When ITS Standards Do Not Have SEP Content Chat Transcript

Date: November 29, 2:00-3:30p.m. ET

Learning Assessment 1: Can anyone remember the "D" word that is used to describe this activity?

Answers:
Decomposition

Learning Assessment 2: Name the Pitfall Game- 6.1.4.2   Serial Bus #2 System Messages. Command/Response Messages shall use similar message format as Serial Bus #1, collecting operational status, detection speed reports, occupancy reports, counts, etc.

Answers:
Unbounded

Learning Assessment 3: Name the Pitfall Game- 6.2.2.4   Enclosure Door Frames and Door Seals. The dimension between the door edge and the enclosure external surface when the door is closed and locked shall be 0.156 inch (+/-0.08 inches).

Answers:
Over constrained
Over specified
Design or over specified or over constrained

Learning Assessment 4: Name the Pitfall Game- 6.4.7.8   Power Distribution Assembly Wiring. Three 36-inch minimum length #8 gauge wires, one black for AC+, one white for AC-, and one green or green/yellow for equipment ground, shall be attached to the rear of the assembly at the AC raw power terminating block.

Answers:
Design and implementation
Should be separated into two

Learning Assessment 5: Name the Pitfall Game- 5.4.2   Public Safety. The system shall use the low-voltage output options available in the ITS Cabinet Standard Version 2 (currently in development).

Answers:
Assumptive

Learning Assessment 6: Name the Pitfall Game- 5.3.2 Startup Considerations. The Engine Board low-level hardware and O/S initialization shall be completed and application software shall be capable of exercising control of all ATC unit hardware within a maximum of 4.5 seconds.

Answers:
Unbounded
Over constrained

Question: Why is design not included in the requirements?

Question: Do you mean subject matter expert or SE expert?
Answer: You might use a systems engineering expert

Question: Could you add "and a selected group of intersections"?
Answer: I suppose that could be another requirement. So you could have a selected intersection or a selected group of intersections.

Question: Another SE expert who has advised me on a project hates the term "shall allow the operator" He prefers "the system shall <action>..."   What do you think?
Answer: That is acceptable also.

Question: Would you use requirements to buy something off the shelf?
Answer: Yes, you can do that.

Comment: Good example of needing to think if someone else could misinterpret your requirement.

Learning Assessment 7: To understand that requirements development is a_____
Answer:
Process

Learning Assessment 8: To avoid _____ when writing requirements
Answer:
Pitfalls

Learning Assessment 9: How to write requirements when an ITS communication standard does not have _____ information.
Answer:
SEP

Learning Assessment 10: To use _____ matrices as tools for requirements development.

Answer:
Traceability

Comments:
Thank you
Thanks!