ILLINOIS INSTITUTE OF TECHNOLOGY

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SOFTWARE QUALITY MANAGEMENT

CSP587

Prof. Dennis Hood

Computer Science

Homework #3

- A checkpoint intentionally impedes progress to allow for *adequate* inspection. If progress is not impeded enough, the inspection is inadequate; if progress is impeded too much, those being inspected become angry.

  For each of the following types of inspection:

  1. Make sure no one / nothing bad gets onto a commercial flight
  2. Make sure only authorized users gain access to an application
  3. Make sure the software development organization is improving
  4. Make sure a prototype application is acceptable to the users
  5. Make sure an application meets requirements
  6. Make sure infected persons are prevented from entering a lecture hall

  Examine and report on each of the following issues:

  a. How will flow be impeded to support adequate inspection?
  b. What automated tools can be used to facilitate achieving adequate inspection while maximizing flow?
  c. What metrics can be collected/analyzed for ensuring that progress is impeded by just the right amount?, and how can they be collected/analyzed automatically?
  d. What are the drivers of cost?
  e. How can the inspectors prove that the checkpoint is worth it (i.e., benefit > cost)?

- Please submit via Blackboard by October 26th