Online Proctoring

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Proctoring Options

• Unproctored Internet Testing (UIT) with or without a verification test
• Online Proctored Testing
• Testing Center Testing
What Is Online Proctoring?

• Authenticating examinees
• Monitoring of an exam administration session using Internet technology to view and listen to the session
• Responding effectively if a perceived security problem occurs.
Testing Workstation

Camera Placement

Proctor View
Where Is Online Proctoring Used Today?

• Distance education programs (course exams)
• Small, but important, certification programs
Technical Requirement

Difficult to hit such a moving target, but I’ll give it a try:
• Examinee computer or other available computer
• Quiet location with high-speed Internet access
• Webcam with sufficient field of view
• Installation of lockdown program
• Authentication procedures
• Communication enabled (IM, chat, etc.) between examinee and proctor
• Recording and storage of test session video/audio capability
Possible Benefits of Online Proctoring

• Greater convenience
• Less costly
• More secure (for some threats)
• Record and store testing sessions
Possible Disadvantages of Online Proctoring

• May not be possible given testing system requirements
• Setup of lockdown and camera placement can be a challenge
• Less secure (for some threats)
• Perceived as a less secure model—may taint a program
• Some vendors providing less-than-secure methods/technology
  • Camera with limited view
  • Delayed review of video
  • Proctors able to view the test content
  • Proctors do not control test session
Common Technical and Operational Issues

• Camera connection and placement
• Use of integrated camera
• Loss of Internet connection
• Inability to detect all security threats
• Installing lockdown program (and control of examinee computer)
• Authentication (simple or complex; manual or automatic)
• Monitoring several examinees at the same time
Standards of Online Proctoring

• Provides for effective observation
• Has the capability for interaction and control
• Records and stores the test session and proctor logs
• Locks down the testing computer
• Uses a reliable authentication process
• Adheres to general security practices
The Future of Proctoring and Technology

• **IN THE PAST**: Humans did it all! No technology involved.

• **TODAY**: Humans get some help: Technology is assisting the effort (CCTV, biometrics; webcams, lockdown).

• **NEAR FUTURE**: Humans assist the proctoring technology.

• **A LITTLE FARTHER IN THE FUTURE**: Humans design a completely automated monitoring system and deal with security breaches.
Thanks!