

# Online Proctoring

---

David Foster, Caveon

May 15-16, 2015

# Proctoring Options

---

- Unproctored Internet Testing (UIT) with or without a verification test
- Online Proctored Testing
- Testing Center Testing

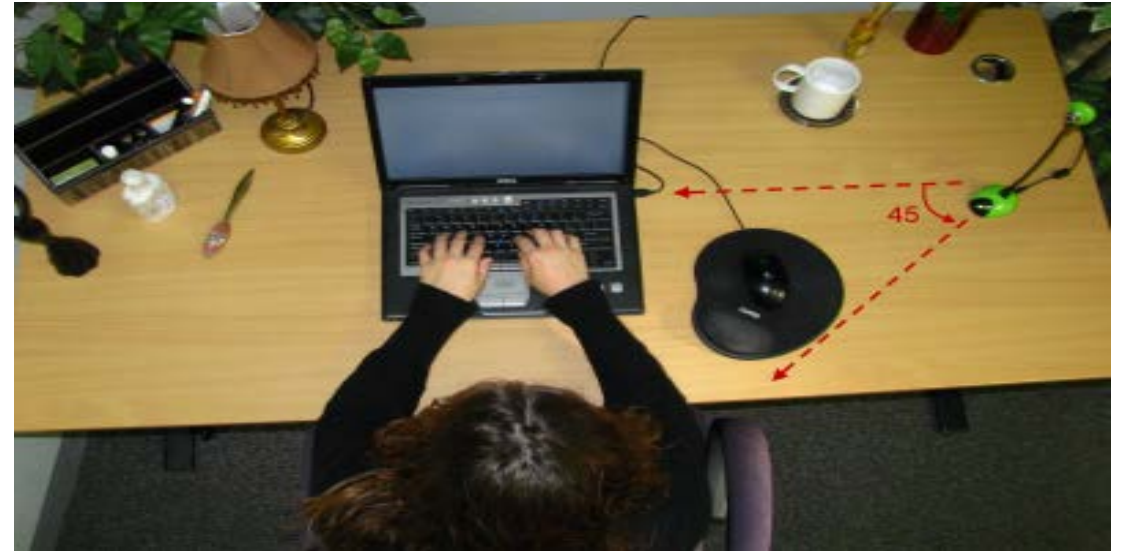
# What Is Online Proctoring?

---

- 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!

---