Cyber Training Best Practices

Federal Government Segment

Leader in Competency-Based, Performance-Based, and Role-Based Cyber Security Education Tools and Training

- Cyber Security Training
  - AoE™ Flagship
  - JCAC – Information Warfare Training Center
  - Custom Curriculum – ISACA, CISCO
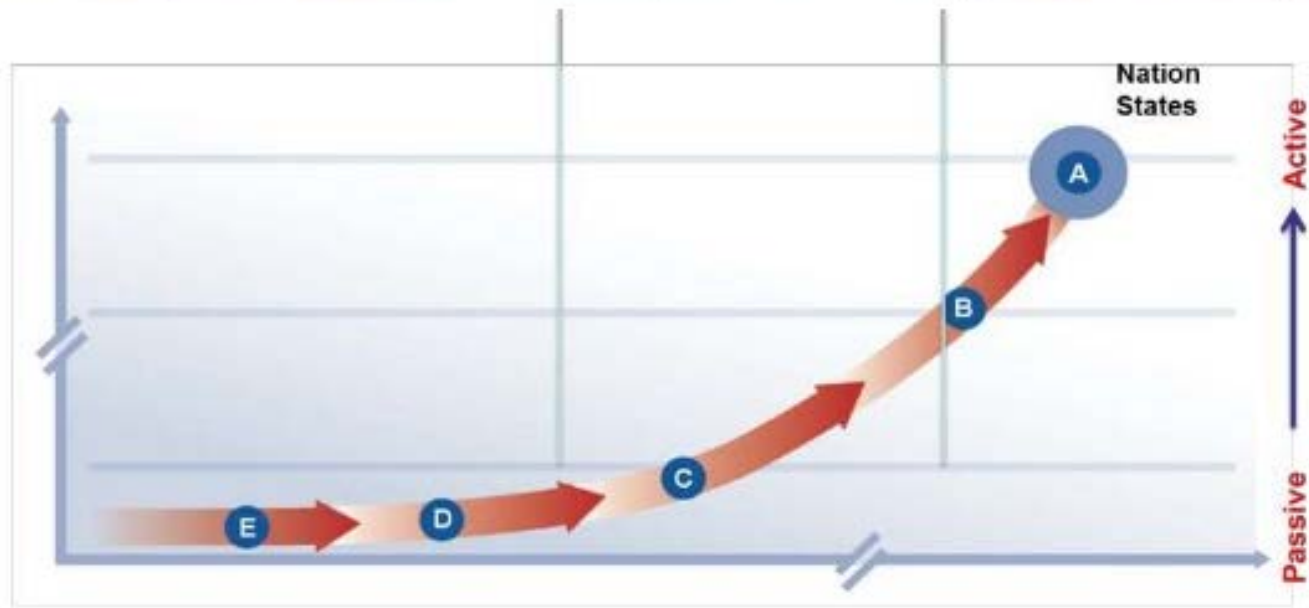 - Commercial and International Government SOC Training

- Assessment Methods
  - PerformanScore™
  - TalentScore™
  - ITADS – Intelligent Tutoring

How to increase cyber maturity

8570 – Certification Based

Table AP3.T2 DoD Approved Baseline Certifications

IAT Level I	IAT Level II	IAT Level III
A+-CE Network+ CE SSCP CCNA-Security	GSEC Security+ CE SSCP CCNA-Security	CISA ~~GSE~~ GCIH GCED CISSP (or Associate) CASP

IAM Level I	IAM Level II	IAM Level III
CAP ~~GISF~~ GSLC Security+ CE	CAP GSLC CISM CASP CISSP (or Associate)	GSLC CISM CISSP (or Associate)

IASAE I	IASAE II	IASAE III
CISSP (or Associate) CASP CSSLP	CISSP (or Associate) CASP CSSLP	CISSP - ISSEP CISSP - ISSAP

CNDSP Infrastructure Support

CNDSP Analyst		CNDSP Incident Responder	CNDSP Auditor	CNDSP Manager
GCIA CEH GCIH	SSCP CEH	GCIH CSIH CEH GCFA	CISA GSNA CEH	CISSP-ISSMP CISM

COMTECH
Command & Control Technologies

TCS

8140 – Performance Based

Best Practices in Cyber Training

- Pre Assessment
- Training Plan
- Training
- Tutoring / Mentoring
- Post Assessment (certification)

- Items needed for Successful Training
  – Cyber Range / Labs
  – Training /Curriculum
  – Assessment / Scoring
- Long Term Measurement of Training and Outcomes (Analytics)

COMTECH
Command & Control Technologies
TCS

Best Practices (Representative examples)

- Nation States
  - Range Environment
  - Heavy hands on - 60/40 ratio Hands on/Training
  - Knowledge is not sufficient
  - Hands on training in realistic simulated environments
  - Assessment (Pre/Post)
- Government Trainer
  - Range Environment
  - Movement to hands on
  - Performance Based Assessment
  - Asynchronous Delivery

- DoD
  - Range Environment
  - Performance based Assessments
  - ASVAB, A school, B school tracking and analytics
- Major Certification Provider
  - Range Environment
  - Commercially Available Performance Based Assessment
  - Mapped to CSF
  - Hands On
  - Government and Industry Customers
  - Asynchronous Delivery

Performance Based Scoring
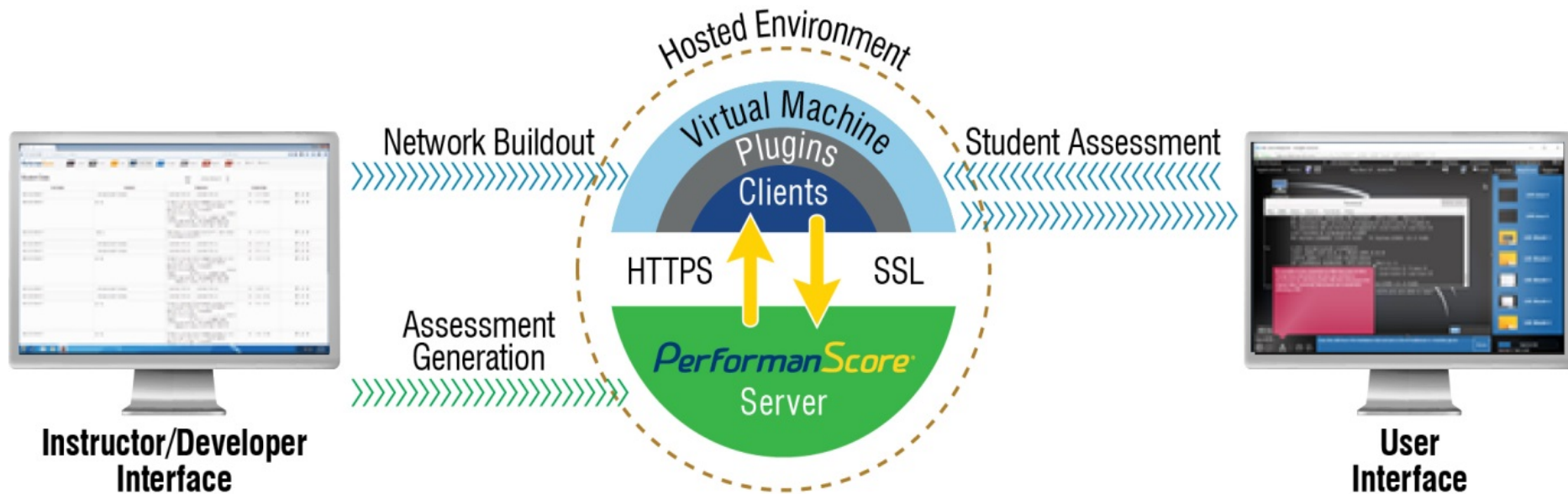
PerformanScore (PnS) is a tool that scores a user based on their ability to perform specific tasks. As a user works through an activity, plugins and clients monitor, collect, and send completed tasks to a scoring server that assesses their progress against a performance rubric. A task completion score is automatically calculated and reported to authorized agents when the activity is completed.

Contact Us

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