

# Developing a Multiple Hurdle Approach to Hiring

Catina Smith, Ph.D. & Amanda D. Angie, Ph.D.

HR Research & Assessment Division

U.S. Secret Service

IPAC Conference July 2011

Washington, D.C.



*U.S. Department of  
Homeland Security*

United States  
Secret Service

# Purpose & Objectives

- Discuss Considerations for Determining Selection Procedures
- Provide an Overview of Selection Strategy Options
- Discuss the Development and Use of a Multiple Hurdle Approach to Hiring
- Provide Some Applied Examples of Multiple Hurdle Selection Systems (including practice exercises)



*U.S. Department of  
Homeland Security*

United States  
Secret Service

# You Have Identified the Job...

## Now What?

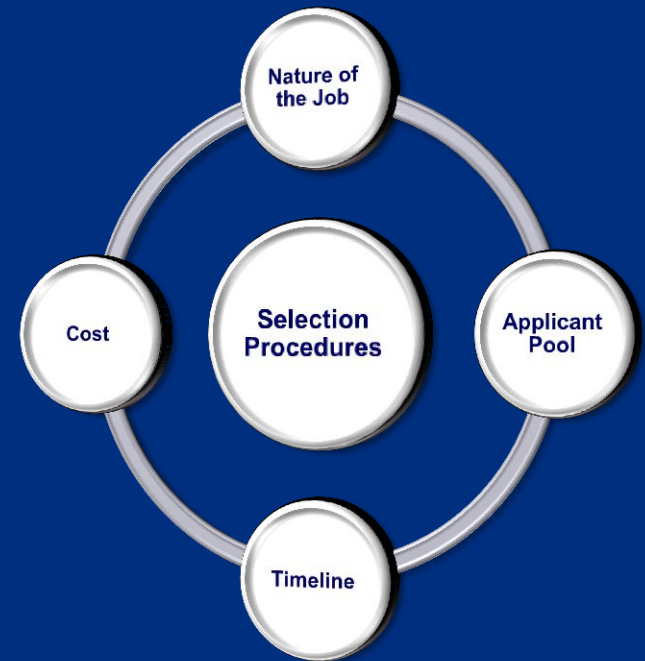


*U.S. Department of  
Homeland Security*

United States  
Secret Service

# Determine Your Selection Procedures

- There are several considerations to make when determining your selection procedures:
  - What does the job look like?
  - How many applicants will you have?
  - How much time do you have to hire?
  - How much will the process cost?



*U.S. Department of  
Homeland Security*

United States  
Secret Service

# Assess the Job

- What does the job look like?
  - Conduct job analysis – gathering information about a job in an organization
  - Identify the critical KSAOs to be measured
  - Link assessment type to KSAOs
- Identify operational requirements
  - Extensive training
  - Specialty skills



*U.S. Department of  
Homeland Security*

United States  
Secret Service

# Identify Your Applicant Pool

- How many applicants do you expect will apply for the position?
  - Entry-level positions may attract large numbers of applicants
  - Jobs requiring specialty skills, however, may have a much smaller number of applicants but may recruit from all over the country and even the world (e.g., computer programmers, engineers, etc.)



*U.S. Department of  
Homeland Security*

United States  
Secret Service

# Establish a Timeline for Hiring

- Consider the amount of time you can devote to the process:
  - Do you need to fill the position immediately?
    - A shorter, less time consuming process is probably best
  - Are your hiring needs less urgent?
    - A longer, more comprehensive process may be appropriate (i.e., specialty positions)



*U.S. Department of  
Homeland Security*

United States  
Secret Service

# Calculate Cost

- How much will the selection process cost?
  - Cost can be determined by:
    - Assessment type and administration requirements
      - E.g., paper-and-pencil tests tend to be less expensive than interviews
    - Applicant pool
      - E.g., location of applicants and number applying
    - Time for hiring
      - E.g., a lengthy testing process can be expensive



*U.S. Department of  
Homeland Security*

United States  
Secret Service



# Why is this so Important?

- Minimizes selection decision errors:
  - False positives – an applicant passes through all selection phases and is hired, but is unsuccessful on the job
  - False negatives – an applicant is rejected but would have proved successful on the job
- Increases desired outcomes:
  - True positives – an applicant passes through all selection phases, is hired, and is successful on the job
  - True negatives – an applicant is rejected and would not have performed successfully on the job



*U.S. Department of  
Homeland Security*

United States  
Secret Service

# Next Steps

- Once you have considered the factors that influence your selection procedures, how do you determine the selection strategy that best fits your needs?
  - Choose a strategy that:
    - Maximizes the potential of your assessments
    - Provides a full view of the competencies you will measure
      - May require more than one assessment
    - Minimizes cost and provides quality applicants
    - Fits your hiring timeframe



*U.S. Department of  
Homeland Security*

United States  
Secret Service

# Selection Strategies

- Compensatory (a.k.a., Multiple Regression)
  - *All assessments are given to all applicants and scores are calculated to arrive at a total score*
- Multiple Cut-offs
  - *All assessments are given to all applicants and scored on a pass-fail basis*
- Combination Method
  - *All assessments are given to all applicants and the scores of those who pass are calculated and rank ordered*
- Multiple Hurdle
  - *All applicants must pass each assessment hurdle consecutively in order to continue in the process*



U.S. Department of  
Homeland Security

United States  
Secret Service

# Multiple Hurdle Approach

- Each assessment hurdle is scored as pass-fail and only applicants that pass may proceed to the next hurdle
  - Failure to pass a hurdle results in the applicant being dropped from further consideration
- This approach is most appropriate when:
  - Training is long, complex, and expensive
  - An essential KSA cannot be compensated for by high levels of other KSAs
  - Consequences of error in hiring are high (e.g., airline pilots, air traffic controllers, nuclear engineers, etc.)



*U.S. Department of  
Homeland Security*

United States  
Secret Service

# An example of a multiple hurdle system: The U.S. Secret Service



*U.S. Department of  
Homeland Security*

United States  
Secret Service

# U.S. Secret Service Overview

- The Secret Service was established in 1865 under the U.S. Dept. of Treasury
- The Secret Service transferred to the U.S. Dept. of Homeland Security in 2003
- Secret Service dual mission:
  - To protect national leaders, visiting heads of state and government, designated sites and National Special Security Events
  - To safeguard the nation's financial infrastructure and payment systems to preserve the integrity of the economy

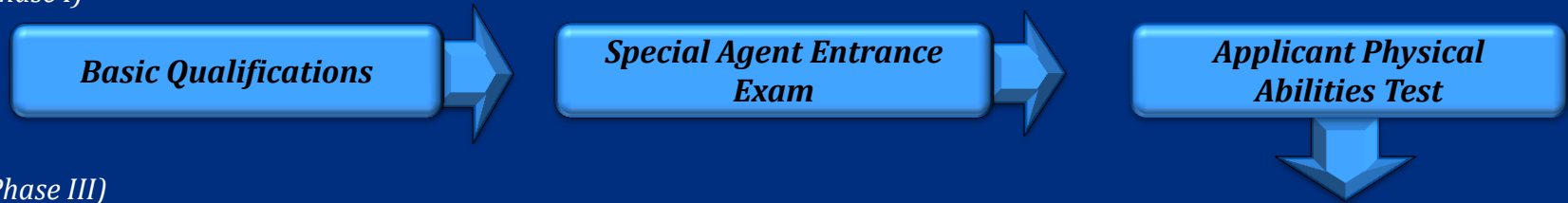


*U.S. Department of  
Homeland Security*

United States  
Secret Service

# *The Special Agent Entry-Level Selection Process (Draft)*

*(Phase I)*



*(Phase III)*



*(Phase II)*



U.S. Department of  
Homeland Security

United States  
Secret Service



## PHASE I

- Lowest Cost
- Least Time Consuming

# Special Agent Entry-Level

- Highest Impact
- Lowest Cost
- Competency Based

- A Minimum Requirement

(Phase I)

**Basic Qualifications**

- Thousands of applicants

**Special Agent Entrance Exam**

**Applicant Physical Abilities Test**

(Phase III)

**Polygraph Examination**

**Report Writing Assessment**

**Conditional Offer**

(Phase II)

**Initial Interview**

**Structured Panel Interview**

**Security Interview**

**Medical Examination**

**Background Investigation**

**Hiring Decision**

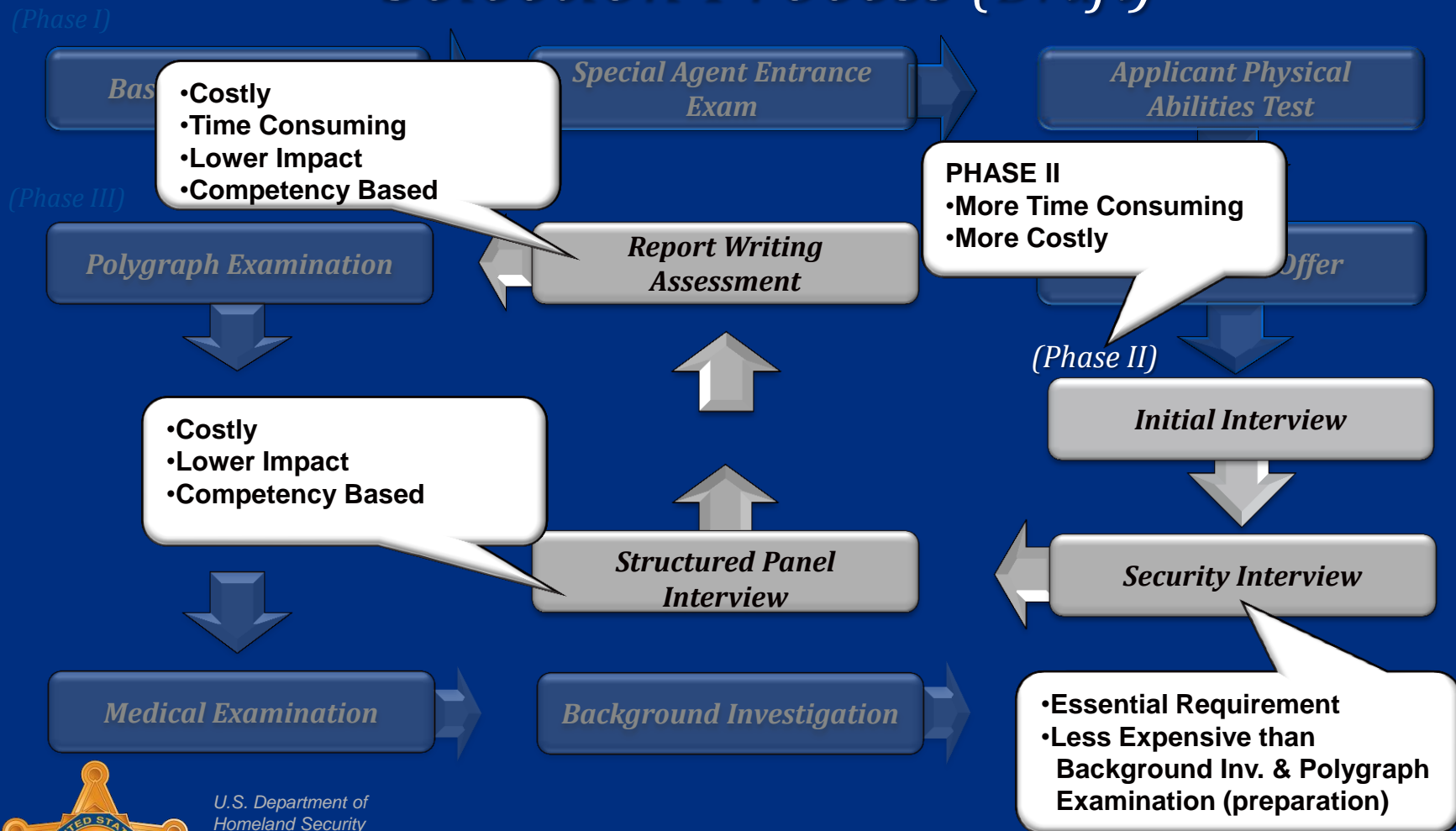


U.S. Department of  
Homeland Security

United States  
Secret Service



# The Special Agent Entry-Level Selection Process (Draft)



U.S. Department of  
Homeland Security

United States  
Secret Service

# The Special Agent Entry-Level Selection Process (Draft)

## PHASE III

- The MOST Time Consuming
- The MOST Expensive
- All Essential Requirements

(Phase III)

**Polygraph Examination**

- Very Expensive
- Very Time Consuming
- Essential Requirement

**Medical Examination**

- Essential Requirement
- Very Expensive

**Report Writing Assessment**

- Very Expensive
- Very Time Consuming
- Essential Requirement

**Background Investigation**

**Special Agent Entrance**

**Applicant Physical Abilities Test**

**Conditional Offer**

(Phase II)

**Initial Interview**

**Security Interview**

**Hiring Decision**



U.S. Department of  
Homeland Security

United States  
Secret Service

# Applied Examples

- FBI

- Logical reasoning test, Biodata, SJT
- Panel interview and Writing test (essay)
- Physical fitness test
- Background investigation (w/ polygraph)
- Medical exam

- Microsoft

- Resumé review
- First Interview
- On-site Second Interview

- Morgan Stanley

- Resumé review
- Interview
- Assessment Center

- TSA

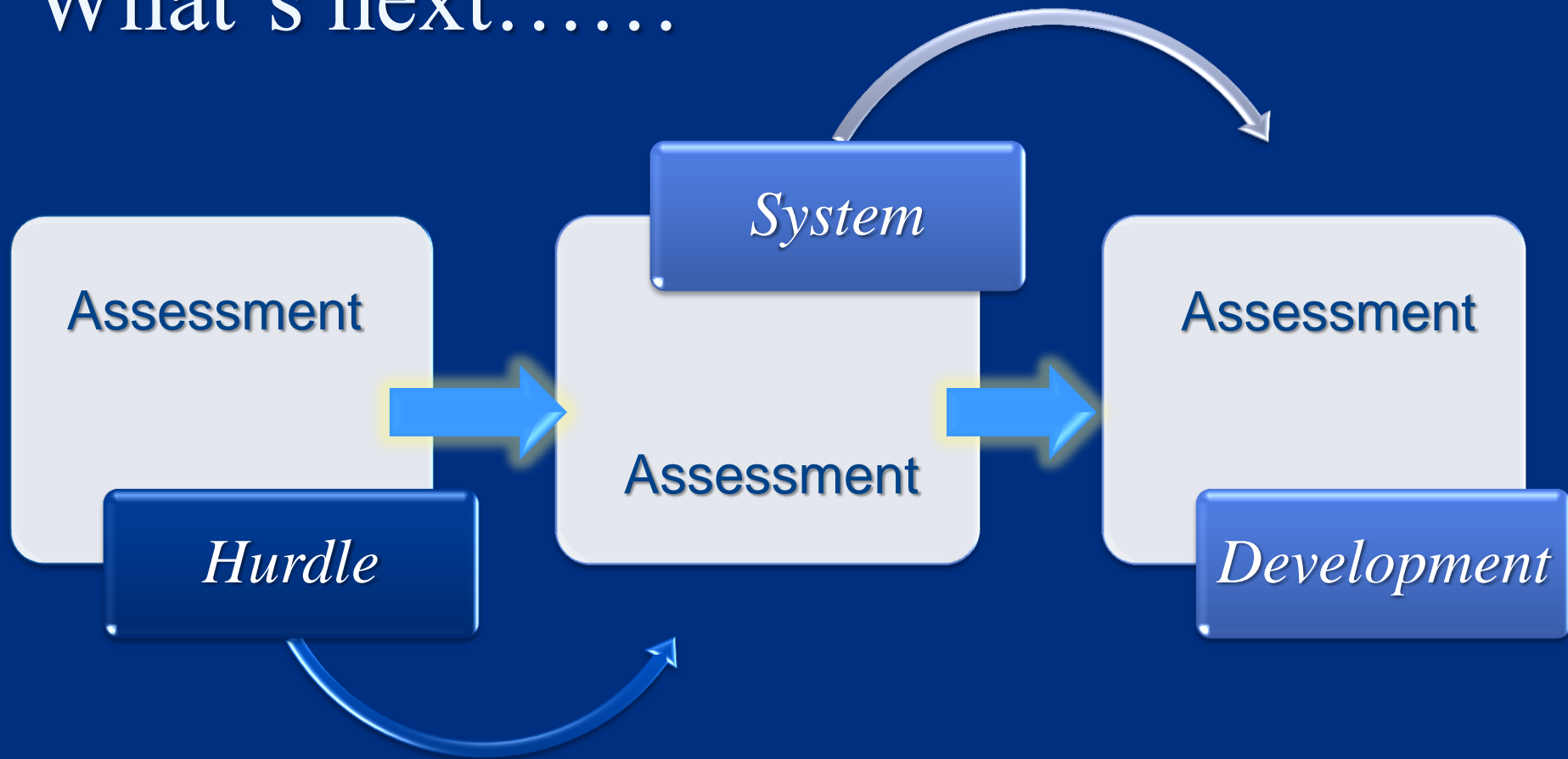
- Task-based training and experience measure
- Logical reasoning test, SJT – video-based
- Panel interview, Physical training assessment
- Medical exam, Background investigation



*U.S. Department of  
Homeland Security*

United States  
Secret Service

# What's next.....



U.S. Department of  
Homeland Security

United States  
Secret Service

# Determine Assessments

- Determine the assessments you will use in your process:

- Use *existing* assessment(s)

OR

- *Develop your own* assessment(s)

OR

- Use *a combination of existing assessments* and develop your own



U.S. Department of  
Homeland Security

United States  
Secret Service

# Structuring the Hurdle Process

- Determine the number of hurdles and the order of placement

Consider:

- The minimum requirements that an applicant must have to be successful in the job
  - The cost and time commitment: more expensive and time consuming assessments are typically placed at the end
  - The impact of the assessments on the applicant pool
  - Scoring of the assessments
  - Making the hiring decision
- There should always be a clear rationale for choices you make in your processes



*U.S. Department of  
Homeland Security*

United States  
Secret Service

# Evaluate Your Selection Process

- Evaluate your selection process periodically and update accordingly
  - Conduct research on a consistent basis to evaluate:
    - If the requirements of the job have changed
    - If there are better measures available
    - If there is adverse impact in your process
    - Applicant reactions to your process
    - The quality of the applicants you have hired



*U.S. Department of  
Homeland Security*

United States  
Secret Service

# Questions?

# Questions?



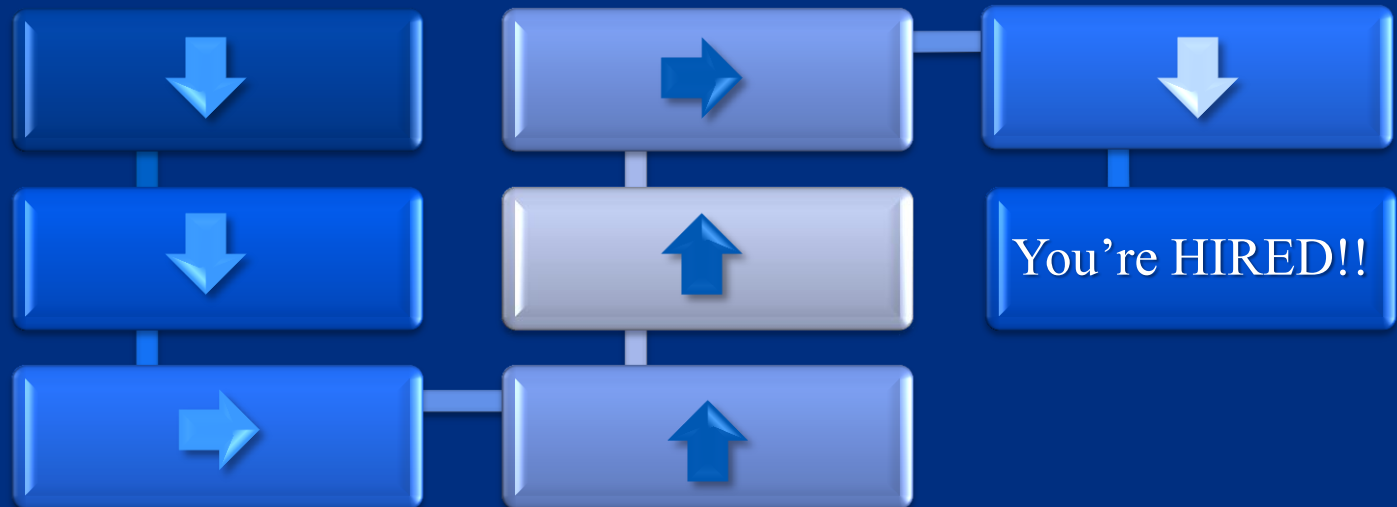
*U.S. Department of  
Homeland Security*

United States  
Secret Service



# Activity:

## Design a Multiple Hurdle System



*U.S. Department of  
Homeland Security*

United States  
Secret Service



*U.S. Department of  
Homeland Security*

United States  
Secret Service