Measuring Leadership Potential: Lessons and Challenges from the Army’s Officer Candidate School (OCS)

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Matthew T. Allen
   Joy T. Oliver
   Teresa L. Russell

Human Resources Research Organization (HumRRO)

Nehama E. Babin
   Mark C. Young

U.S. Army Research Institute for the Behavioral and Social Sciences (ARI)

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Overview

1. Introduction to OCS
2. Objectives
3. Study Methodology
4. Results
   - Reliability/validity of ratings of leadership potential
   - Predictors of leadership potential ratings
5. Implications
The U.S. Army’s Officer Candidate School (OCS)

• What is OCS?
  – A source for commissioning officers into the Army
  – Other main sources are ROTC and West Point

• Overview and Recent History
  – OCS considered the “flexible backup” source for commissioning officers
    • Role expanded in response to increase in force requirements
    • Can commission officers in 12 weeks
  – Little research has been conducted on OCS in the last 30 years

• Training curricula contains aspects of:
  – Academic (e.g., military history)
  – Physical (e.g., runs with and without gear)
  – Leadership (e.g., performance on field leadership exercises)
The U.S. Army’s Officer Candidate School (OCS)

• Two primary avenues for entering OCS:
  1. **In-service option** – Open to enlisted Soldiers who want to become officers and have a college degree.
  2. **Enlistment option** – Civilians with a college degree who enter OCS after completion of Basic Combat Training
     - Began in 1998

• Officers are “leadership generalists” (as opposed to technical specialists)

• Interest in developing leaders for both:
  - Company-grade positions – Lieutenants and Captains
  - Field-grade positions – Major, Lieutenant Colonel, Colonel, General Officer
Objectives of Presentation

• Big picture challenge
  – Assessment of leadership performance *and* potential critical to the Army
  – Difficult because company and field-grade positions/ responsibilities very different
    • Research (e.g., Mumford et al., 2000) and commentaries (Kane, 2011) back up this claim
  – Most extant research comes from selection/promotion perspectives

• Current purpose
  1. Evaluate whether officer candidates’ peers can reliably evaluate leadership potential
  2. Examine what factors predict ratings of leadership potential
The Study

- 745 officer candidates in five classes surveyed at the end of the 12-week OCS course

- Asked to complete:
  1. **Attitudes** – Affective Commitment and Career Intentions
  2. **Peer ratings** – Rate leadership potential of squad members
  3. **Leader roles** – Rate importance of five roles

- From administrative records, we also obtained scores on:
  - Academic performance
  - Physical fitness
  - Leadership performance
Peer Ratings of Leadership

- Rate self and fellow squad members
  - \( n = 10 \) to 13 per squad
  - Rated on their potential for:
    - Company-grade leadership positions
    - Field-grade leadership positions
  - Rating scale:
    - 1-2 = Likely to be a poor or marginal performer
    - 3-4 = Likely to be a satisfactory to good performer
    - 5-6 = Likely to be a very good to excellent performer
    - 7-8 = Likely to be a truly exceptional performer

2. **Field grade leaders** direct larger organizations and broader systems to achieve more complex long-term goals. Evaluate each candidate in your squad - including yourself - on their likely effectiveness in a **field grade** leadership position (e.g., Battalion Commander, Brigade Commander).

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<tbody>
<tr>
<td>1</td>
<td>Likely to be a poor to marginal performer.</td>
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<td>Cannot Rate: Inadequate opportunity to observe this person</td>
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<td>Likely to be a satisfactory to good performer.</td>
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<td>3</td>
<td>Likely to be a very good to excellent performer.</td>
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<td>4</td>
<td>Likely to be a truly exceptional performer.</td>
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Leader Roles

• Asked to rate the importance of the following roles for “junior” and “senior” officers (Moskos, 2001)
  1. Combat Leader
  2. Technician (e.g., expert knowledge of weapon systems)
  3. Manager (e.g., administrator, supervisor)
  4. Statesman/Diplomat (e.g., negotiator)
  5. Scholar

• Scale
  – 1 = “Not at all important”
  – 7 = “Extremely important”
1. **Academic performance** = Combination of all course grades (low variance)

2. **Physical fitness** = Sum of two scores (initial and final) on the Army Physical Fitness Test (APFT)

3. **Leadership** = Combination of multiple assessments feed into a total score (standardized within class):
   1. Garrison leadership evaluation
   2. Field leadership evaluation
   3. Supervisor ratings
   4. Peer ratings
Question 1 – Peer Ratings

Evaluate whether officer candidates’ peers can reliably and accurately evaluate leadership potential

• Reliability computed using G(q,k), which is appropriate for “ill-structured” designs (Putka et al., 2008)
  – Derivation of an intraclass correlation coefficient (ICC)

• Results
  – Candidates were generally reliable in their assessments
  – G(q,k) = 79-.82; G(q,1) = .38-.42
  – Would need ~3.5 raters to obtain a coefficient of .70
  – Ratings were negatively skewed, consistent with previous research (Viswesvaran, 2001)
  – Nearly all of the scale points were within 2 SD’s of the mean, suggesting the whole scale range was being used
Question 1 – Peer Ratings

- Ratings are reliable, but how close are they to actual performance?

- Can’t assess directly, but can examine indirectly using other measures. We hypothesize:
  1. Relationship between company and field grade potential would be positive, but not identical
  2. Current leadership performance would be more highly correlated with company-grade than field-grade leadership potential
  3. Higher level leadership roles would be more closely associated with field-grade leadership potential
  4. In-service and enlistment-option potential would be more comparable for field-grade leadership
Question 1 – Peer Ratings

• Findings
  – Relationship between company-grade (CG) and field-grade (FG) leadership very high ($r = .98$, $d = -.10$)
  – Both CG ($r = .57$) and FG ($r = .55$) scales significantly related to leadership performance; not different from one another ($Z = 0.67$, $p = ns$)
  – Third hypothesis also not supported; patterns of correlations the same for both CG and FG ratings
  – In-service rated higher for both CG ($d = 0.26$, $p = .01$) and FG ($d = .21$, $p = .03$) leadership potential, though difference is lower for FG leadership

• Conclusion
  – Ratings of leadership potential reliable
  – Results suggest ratings more accurate immediate potential than for higher level positions
Question 2 – Predicting Leadership Potential

Examine what factors predict ratings of leadership potential.

- Regressed CG and FG potential on the following:
  1. In-service versus enlistment-option
  2. Affective commitment
  3. Role “accuracy”
     - Correlated each individual’s rating profile with that of 116 Captains who completed the same assessment
  4. Academic performance
  5. Physical fitness
  6. Garrison evaluation
  7. Field leadership evaluations
  8. Supervisor evaluations
# Question 2 – Predicting Leadership Potential

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<tr>
<th>Predictor</th>
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<th>With Sup Evals</th>
<th>Without Sup Eval</th>
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<td></td>
<td></td>
<td>Beta</td>
<td>RW</td>
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<tr>
<td>1. In-service vs. Enlistment</td>
<td>−.12**</td>
<td>−.03</td>
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<td>2. Affective commitment</td>
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<td>3. Role accuracy</td>
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<td>4. Academic Performance</td>
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<td>.10*</td>
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<td>5. Physical Fitness</td>
<td>.37**</td>
<td>.16**</td>
<td>22.7%</td>
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<td>6. Garrison Evaluations</td>
<td>.17**</td>
<td>.03</td>
<td>4.5%</td>
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<td>7. FLX Evaluations</td>
<td>.14**</td>
<td>.01</td>
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<td>8. Supervisor Evaluation</td>
<td>.53**</td>
<td>.40**</td>
<td>55.8%</td>
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</table>

**p < .01, *p < .05.  

\[ R\text{-square} = .31 \]  
Multiple \( R = .56 \)  

\[ R\text{-square} = .21 \]  
Multiple \( R = .46 \)
# Question 2 – Predicting Leadership Potential

**DV = FG Leadership Potential**

<table>
<thead>
<tr>
<th>Predictor</th>
<th>$r$</th>
<th>Beta</th>
<th>RW</th>
<th>With Sup Evals</th>
<th>Beta</th>
<th>RW</th>
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<tbody>
<tr>
<td>1. In-service vs. Enlistment</td>
<td>-.10*</td>
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<td>-.07</td>
<td>3.4%</td>
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<td>2. Affective commitment</td>
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<td>.03</td>
<td>0.5%</td>
<td>.05</td>
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<td>3. Role accuracy</td>
<td>.00</td>
<td>-.02</td>
<td>0.1%</td>
<td>-.02</td>
<td>0.1%</td>
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<td>4. Academic Performance</td>
<td>.28**</td>
<td>.13**</td>
<td>15.1%</td>
<td>.23**</td>
<td>30.9%</td>
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<tr>
<td>5. Physical Fitness</td>
<td>.35**</td>
<td>.16**</td>
<td>22.9%</td>
<td>.29**</td>
<td>48.9%</td>
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<tr>
<td>6. Garrison Evaluations</td>
<td>.16**</td>
<td>.04</td>
<td>4.4%</td>
<td>.13**</td>
<td>10.2%</td>
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<tr>
<td>7. FLX Evaluations</td>
<td>.15**</td>
<td>.02</td>
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<td>8. Supervisor Evaluation</td>
<td>.50**</td>
<td>.37**</td>
<td>52.9%</td>
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R\text{-square} = .29 \\
\text{Multiple } R = .54
\]

\[
R\text{-square} = .21 \\
\text{Multiple } R = .46
\]
Question 2 – Predicting Leadership Potential

• The results can be summarized as follows:
  1. Affective commitment and leader role accuracy did not predict ratings of leadership potential

  2. The primary predictors of ratings of leadership potential were:
     • Perceptions of current leadership performance (supervisor $r$'s = .50-.53; peer $r$'s = .57-.59)
     • Fitness and Academic performance
     • Garrison evaluations

  3. Service option (in-service vs. enlistment) was significantly related to ratings of leadership potential, but not strongly
     • Perhaps more appropriate as a moderator
     • Exploratory moderator analyses (next slide)
Service Option as a Moderator

- Significant interactions for three of the predictive variables
- Some steeper slopes for the in-service option, but overall, the interactive effects are pretty small
- Service option is not a consistent moderator between leadership performance variables and ratings of potential
Implications

• Implications for Leader Assessment in the workplace

• Peer ratings of leadership potential could potentially be used for short-term forecasting
  – e.g., succession planning
  – Ratings of CG leadership potential in line with expectations
  – Interrater reliability high

• However, peer ratings of leadership potential should not be used for long-term forecasting
  – Ratings of FG leadership potential nearly identical to CG ratings
  – Assessments for different levels should be completed independently

• Physical fitness and academic performance contribute most to rating of leadership potential, followed by performance on leadership tasks
  – Because ratings are consolidated across many dimensions, still somewhat of a black box
  – However, about half the variance in ratings of leadership potential is still unexplained
 References


