National Defense University

Center for Joint and Strategic Logistics Excellence

Industrial College of the Armed Forces
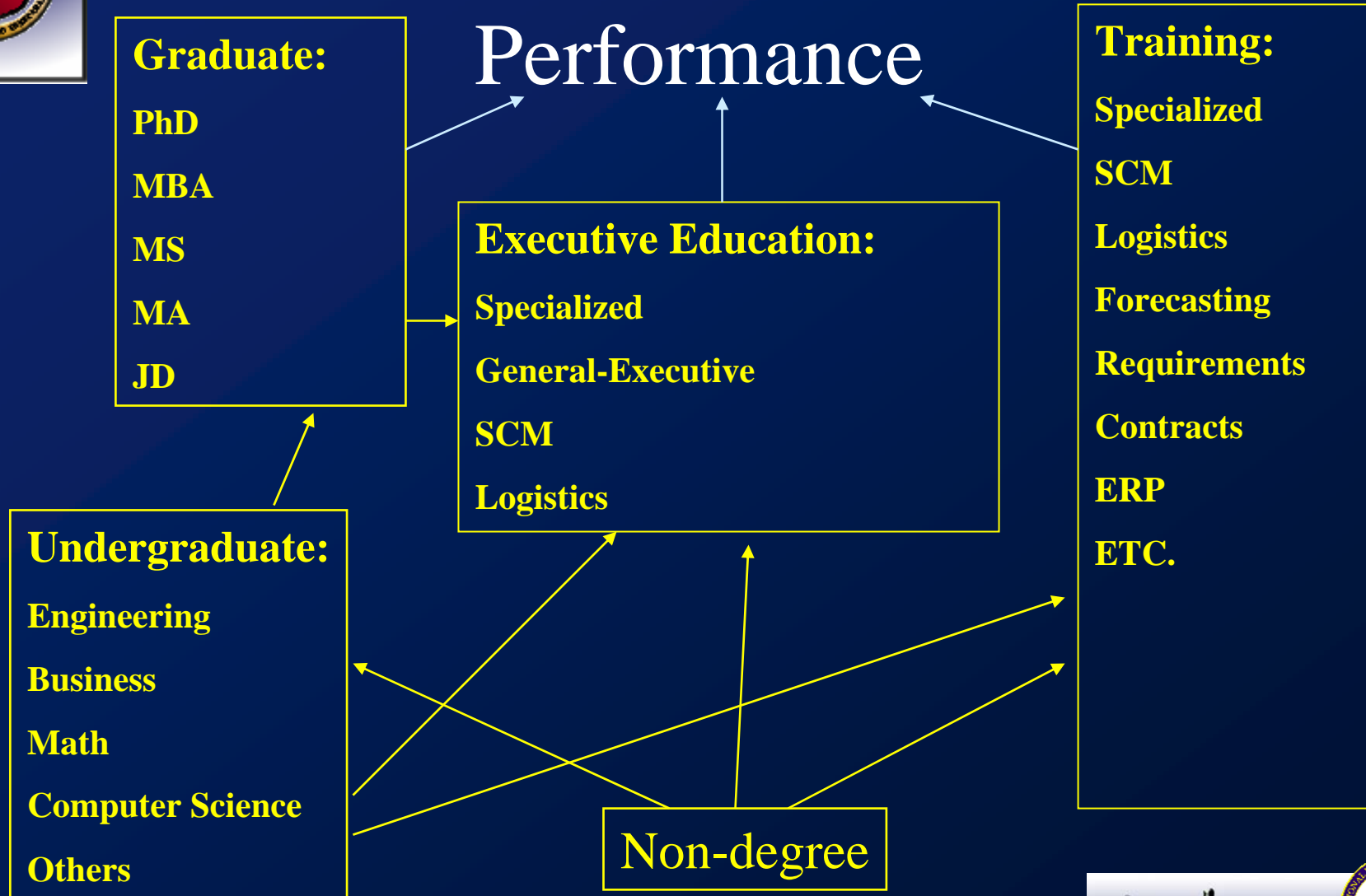
Educating Future Logisticians

Logistics Definitions

- CSCMP

- Ballou, Glaskowsky, Lambert, etc

- DOD

  – The science of planning and carrying out the movement and maintenance of forces. In its most comprehensive sense, those aspects of military operations that deal with:

  – a. design and development, acquisition, storage, movement, distribution, maintenance, evacuation, and disposition of materiel;

  – b. movement, evacuation, and hospitalization of personnel;

  – c. acquisition or construction, maintenance, operation, and disposition of facilities; and

  – d. acquisition or furnishing of services.
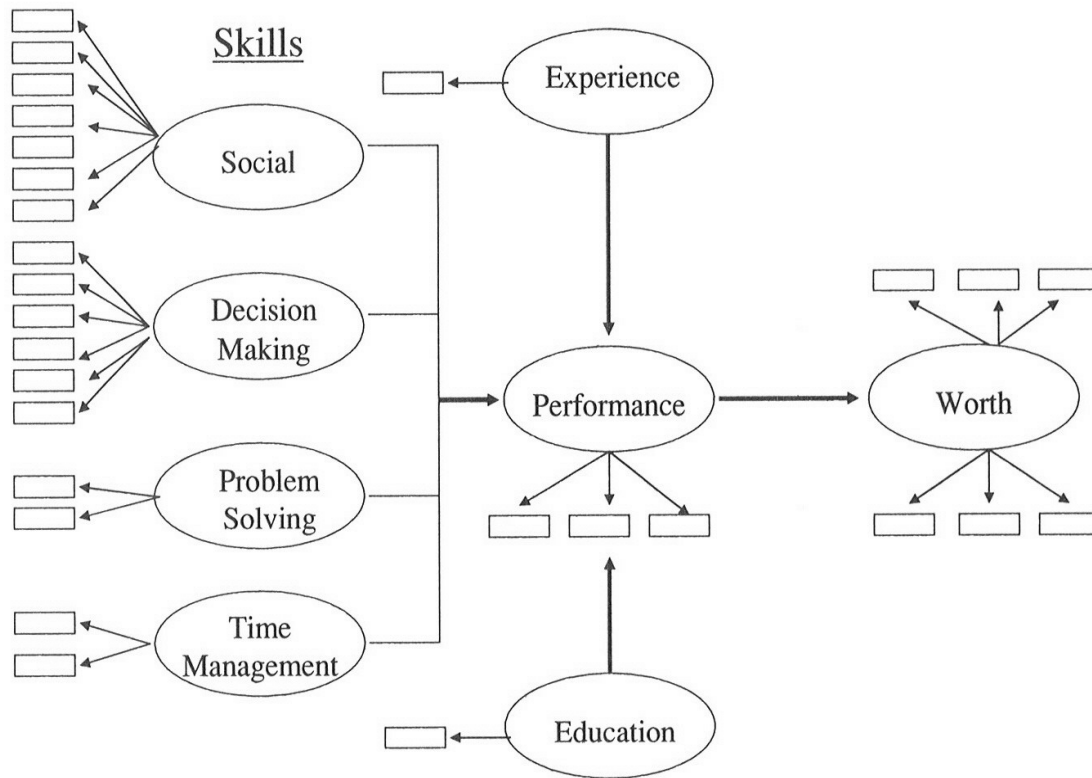
Education and Training

Performance

Graduate:

PhD

MBA

MS

MA

JD

Executive Education:

Specialized

General-Executive

SCM

Logistics

Training:

Specialized

SCM

Logistics

Forecasting

Requirements

Contracts

ERP

ETC.

Undergraduate:

Engineering

Business

Math

Computer Science

Others

Non-degree

People Needs—Our Needs

FIGURE 1

HUMAN CAPITAL IN LOGISTICS

Future Needs

--Logistics expert

--OK with uncertainty

--Global perspective

--Decisions with minimal info

Logistics Education

- **CENTER FOR JOINT AND STRATEGIC LOGISTICS NDU**
  - **Vision—create premier education center with ability to provide analysis to improve joint and strategic logistics education, expertise, and competence throughout the Defense, interagency, and multinational communities**
  - **Mission—develop leaders who understand and employ the "force multiplying effect" of joint and strategic logistics. Center attributes:**
    - SCM Oriented—Insightful—Unbiased--Dispassionate/Analytical

- ICAF Supply Chain Management Concentration Program

Mission…..to prepare selected military and civilians for strategic leadership and success in developing our national security strategy and in evaluating, marshalling, and managing resources in the execution of that strategy.

Educating Future Logisticians

Industry Fellows AY 08-09

- **BAE Systems**
- Battelle
- Boeing
- CSC (Computer Sciences Corporation)
- EADS
- Harris Corporation
- IBM
- KPMG
- L-3 Communications
- LMI (Logistics Management Institute)

Future

- **Future Needs**
- **--Logistics expert**
- **--OK with uncertainty**
- **--Global perspective**
- **--Decisions with minimal info**

Simple EOQ w/Variable Lead Times

- Average lead time, *AVGL*

- Standard deviation, *STDL.*

- *Reorder Level, R:*

$$R = AVG \times AVGL + z\sqrt{AVGL \times STD^2 + AVG^2 \times STDL^2}$$

$$\text{Amount of safety stock} = z\sqrt{AVGL \times STD^2 + AVG^2 \times STDL^2}$$

$$\text{Order Quantity} = Q = \sqrt{\frac{2K \times AVG}{h}}$$