

# ***FE 302 Advanced Facilities Engineering***



Certification Training



Knowledge Sharing



Continuous Learning



Mission Assistance

## **Administration and Introduction**





# FACILITIES ENGINEERING CAREER FIELD



**Integrated  
Business**



**BIG  
Business**



# DOD REAL PROPERTY PORTFOLIO\*

- **Facilities\*\***                      **over 562,000**
- **Sites**                                      **over 4,800**
- **Acres**                                      **over 27.4 million**
- **Facilities Value**              **\$850.5 billion**



# ***DOD FACILITIES PORTFOLIO***

## **DoD Facilities Portfolio:**

- **Buildings** **284,458**

**Building:** A roofed and floored facility enclosed by exterior walls that is suitable for single or multiple functions.

- **Structures** **176,931**

**Structure:** A facility, other than a building or linear structure, which is constructed on or in the land (e.g., tower, storage tank, wharf, pier)

- **Linear Structures** **101,000**

**Structure, Linear:** A facility whose function requires that it traverse land (e.g., runway, road, rail line, pipeline, fence, pavement, electrical distribution line)



## Acquisition (and acquisition)

“Acquisition is the conceptualization, initiation, design, development, test, contracting, production, deployment, logistics support, modification, and disposal of weapons and other systems, supplies, or services (**including construction**) to satisfy DoD needs, intended for use in or in support of military missions.”

*The Facilities Engineering Career Field encompasses a variety of professional individuals with diverse skills focused on the design, construction, and life-cycle maintenance of military installations, facilities, civil works projects, airfields, roadways, and ocean facilities. It involves all facets of life cycle management from planning through disposal, including design, construction, environmental protection, base operations and support, housing, real estate, and real property maintenance.*



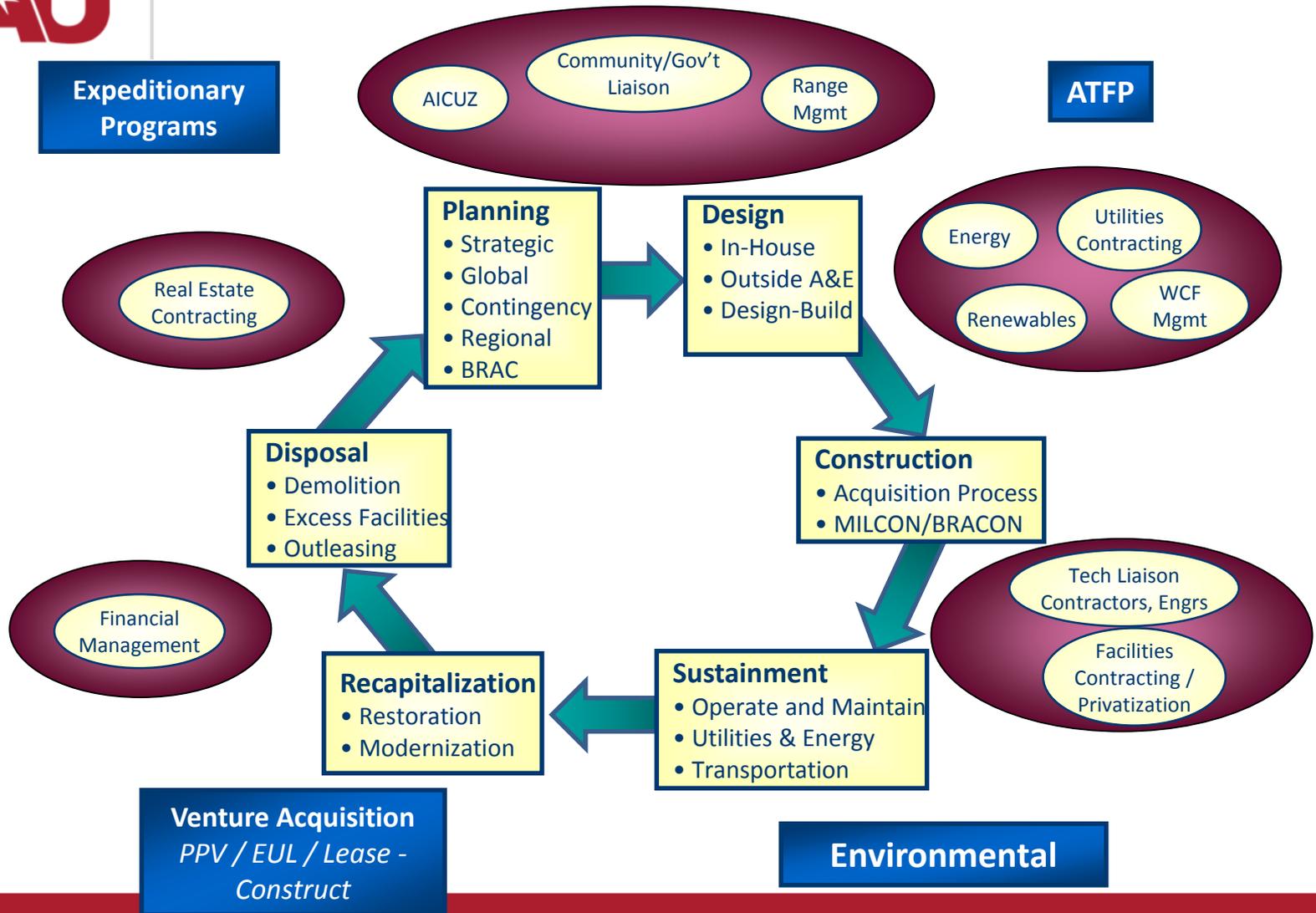
*Additional duties include advising or assisting Commanders, and acting as or advising program managers and other officials as necessary in executing all aspects of their responsibilities for facility management and the mitigation/elimination of environmental impact in direct support of the Defense Acquisition process.*

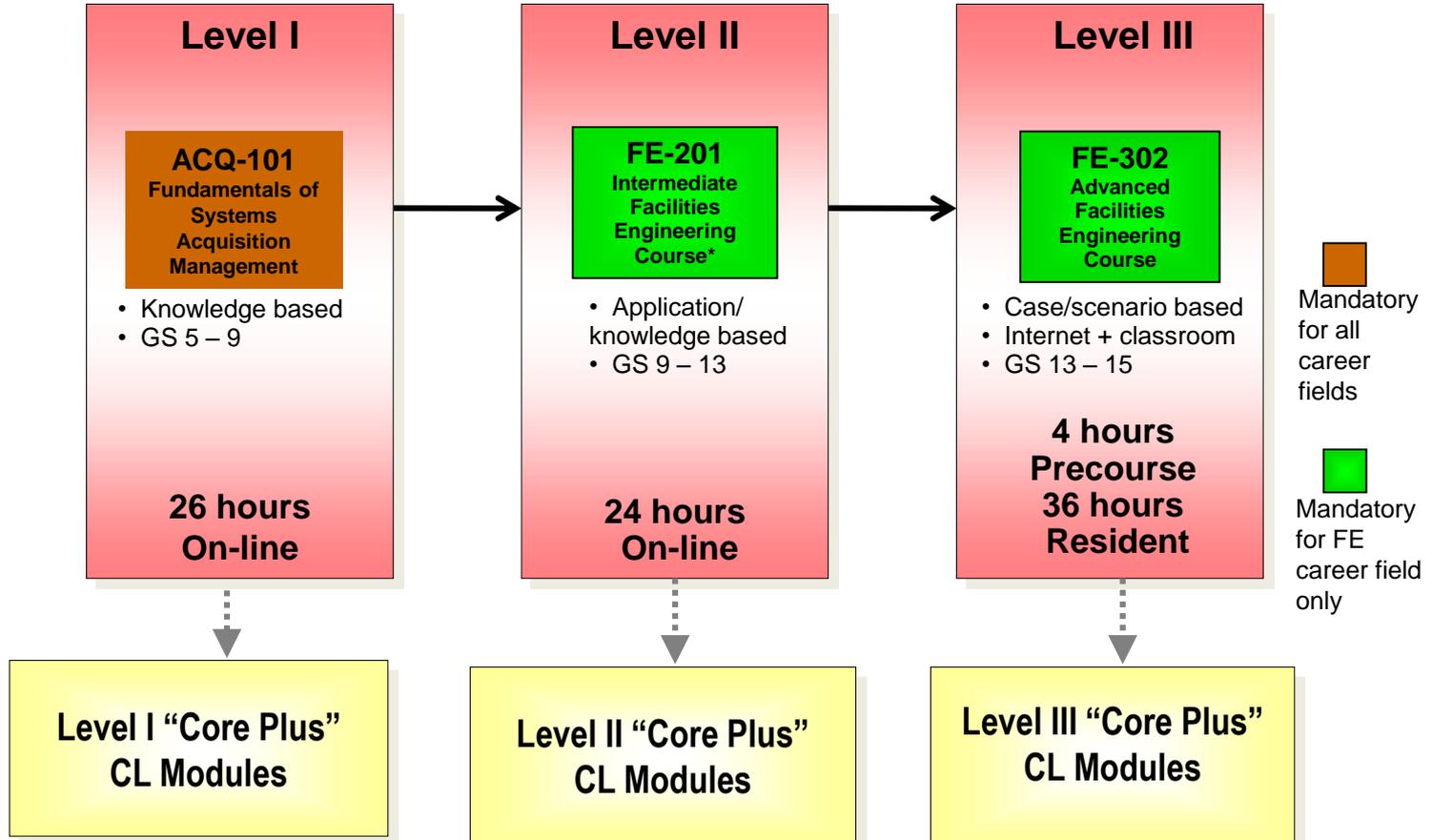
# LIFE CYCLE OF A FACILITY





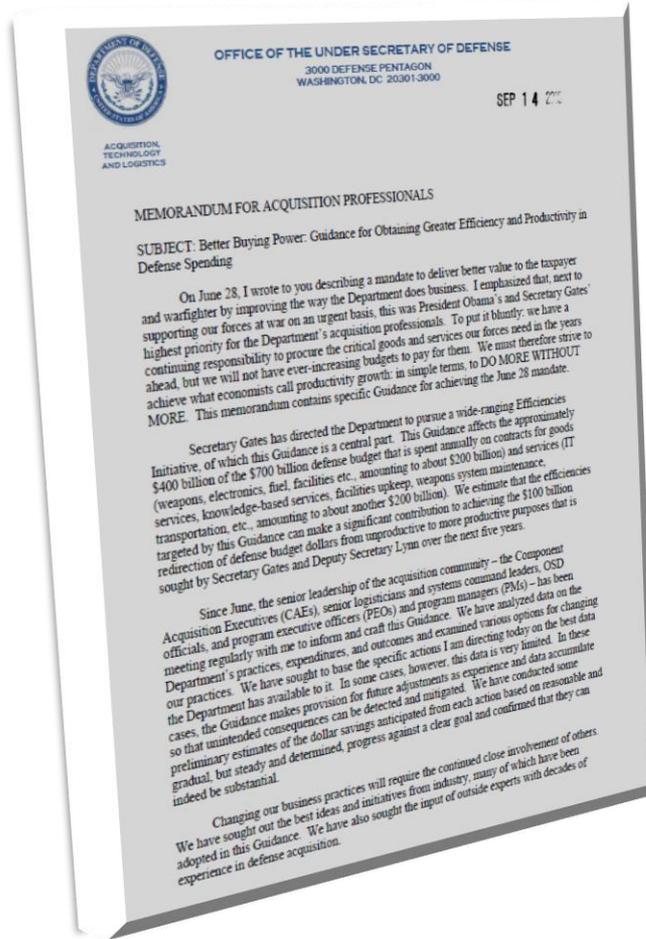
# LIFE CYCLE OF A FACILITY







# BETTER BUYING POWER



## MEMORANDUM FOR ACQUISITION PROFESSIONALS

SUBJECT: Better Buying Power: Guidance for Obtaining Greater Efficiency and Productivity in Defense Spending

“To put it bluntly: we have a continuing responsibility to procure the critical goods and services our forces need in the years ahead, but we will not have ever-increasing budgets to pay for them. We must therefore strive to achieve what economists call ‘productivity growth’”.



# FE302 CONTENT

## **Precourse**

- Cost Analysis
- Contract Types
- Pricing Guides
- WBS
- Wage Determinations
- Risk Management

## **Resident**

- Requirements
- Cost Estimating
- Risk Management Planning
- Scheduling
- Project Issue Management Execution
- Project Management

## Flex Topics

- “Red Zone” and Commissioning
- USACE 101
- NAVFAC Products and Services
- A&E Selection
- Services Acquisition
- Materials Contracting
- Encroachment and Compatibility



## SCHEDULE FOR THE WEEK:

- Day 1 Introduction and Administration
  - Lesson 1 Requirement Development
- Day 2 Lesson 2 Cost Estimating
  - Lesson 3 Risk Management
- Day 3 Lesson 4 Scheduling
  - Lesson 5 Project Issue Management
- Day 4 Lesson 6 Project Planning
  - Flex Topic (TBA)
- Day 5 Flex Topic (TBA)
  - MTM Course Evaluation

Graded exercises throughout



# Management and Leadership: A Bit of Philosophy

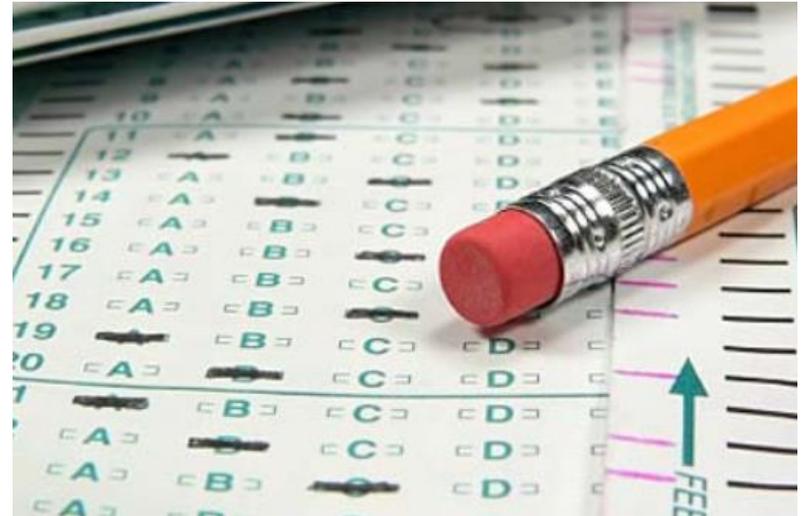
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- You lead people; you manage things
- Procedures, processes, and standing/standard operating procedures (SOPs) do not build projects.....PEOPLE DO!
- Therefore...  
... in order to be a good facilities manager,  
you must be a skilled **LEADER** of people

## Key attributes for effective leaders:

- Active listening (as speaker and listener)
- Develop the ability to see the “big picture”
- Prioritize effectively
- Remain flexible – encourage change for the better
- Hire people who are smarter than you and delegate duties to them
- Develop your subordinates (challenge them; constructively criticize)
- Recognize your own weaknesses and work at overcoming them
- Train your replacement
- Find a mentor and be a mentor for juniors
- Work toward self-improvement and professional development

- **Lecture**
- **Guided discussion**
- **Group presentations**
- **Exercises**
  - (some graded)
- **Case studies**





## Before we begin.....

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- Complete the ***Locator Cards***
- Make any needed edits
- Include a local phone # if you are on travel status
- Confirm supervisor's identity and phone # and/or email address
- Sign and date the form



# WHO ARE YOU ???

Name

Organization

Job duties

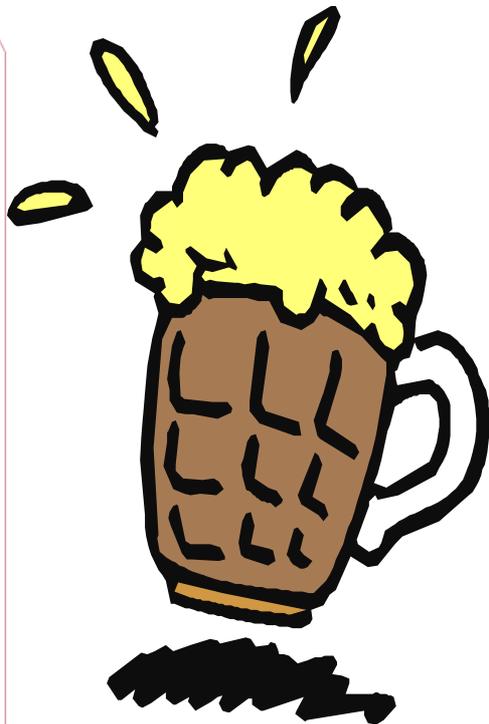
FE experience & specialty

One interesting thing about you

# *Questions?*



# ADDITIONAL SLIDES

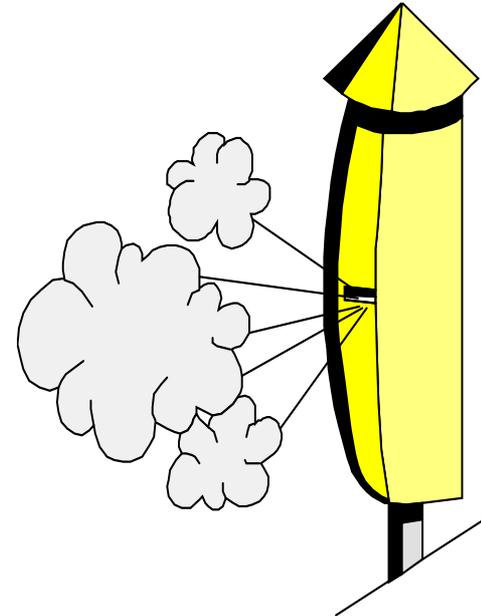


## **DAU Student Services:**

**Coffee/Tea, Vending Machines,  
Microwaves, Refrigerators,  
Restrooms, Smoking Area, Cell  
phones, PDA's, webmail**



- **Attendance**
- **Classroom Hours**
- **Punctuality**
- **Class Schedule**
- **Class Discussion**



## Course Materials

- Student Guide
- Course Appraisals
- Class Roster
- Computer Access
- Blackboard Access

