



Objectives Sheet

ENG 201 - Applied Systems Engineering in Defense Acquisitio

Course Learning/Performance Objectives followed by enabling learning objectives

ENG 201.U01.01	Recognize the importance of Systems Engineering in the DoD's defense acquisition process, to include key Technical and Technical Management processes
ENG 201.U01.01.01	Identify the general role of Systems Engineering in the acquisition process
ENG 201.U01.01.02	Define Systems Engineering in the context of DoD
ENG 201.U01.01.03	Recognize key standards and processes used to apply Systems Engineering
ENG 201.U01.01.04	Identify key components of a Systems Model
ENG 201.U01.01.05	Recognize the relationship among Business Planning, Technical Planning, and the other Technical Management processes
ENG 201.U01.01.06	Identify principal documents used in Technical Planning
ENG 201.U02.01	Apply the important Design Considerations outlined in the DAG
ENG 201.U02.01.01	Identify considerations that can impact design
ENG 201.U02.01.02	Recognize their possible impacts/implications on design solution(s)
ENG 201.U02.01.03	List the vulnerabilities of poor DC design choices
ENG 201.U02.01.04	List the SE actions required to ensure an effective implementation for each DC
ENG 201.U03.01	Describe the major SE tenants across the Acquisition Life Cycle
ENG 201.U03.01.01	Recognize the six Acquisition Life Cycle variations
ENG 201.U03.01.02	Identify the major differences and their importance among the six life cycle variations
ENG 201.U03.01.03	Given a life cycle variation, describe the additional SE emphasis required by phase
ENG 201.U04.01	Apply Systems Engineering activities critical to the Materiel Solution Analysis phase
ENG 201.U04.01.01	Identify the Inputs needed and their importance for the Materiel Solutions Analysis phase
ENG 201.U04.01.02	Identify Outputs and their importance in the Materiel Solutions Analysis phase
ENG 201.U04.01.03	Recognize the key Systems Engineering activities during Materiel Solutions Analysis phase
ENG 201.U04.01.04	Recognize event-driven technical reviews and their importance associated with Materiel Solutions Analysis phase
ENG 201.U05.01	Apply Systems Engineering activities critical to the Technology Maturation & Risk Reduction (TMRR) phase
ENG 201.U05.01.01	Identify the key Inputs and their importance in the TMMR phase
ENG 201.U05.01.02	Identify the key Outputs and their importance in the TMMR phase
ENG 201.U05.01.03	Recognize key Systems Engineering activities during the TMMR phase
ENG 201.U05.01.04	Recognize event-driven technical reviews associated with TMMR
ENG 201.U06.01	Apply Systems Engineering activities critical to the Engineering & Manufacturing Development (EMD) phase
ENG 201.U06.01.01	Identify the Inputs needed for EMD phase
ENG 201.U06.01.02	Identify the Outputs, or products, of EMD phase
ENG 201.U06.01.03	Recognize key Systems Engineering activities for EMD
ENG 201.U06.01.04	Recognize key Systems Engineering activities for EMD
ENG 201.U06.01.05	Identify technical baselines associated with EMD
ENG 201.U07.01	Apply Systems Engineering activities critical to the Production & Deployment (P&D) phase
ENG 201.U07.01.01	Identify the key Inputs and their importance in the O&S phase
ENG 201.U07.01.02	Identify the key Outputs and their importance in the O&S phase
ENG 201.U07.01.03	Recognize key Systems Engineering activities for P&D
ENG 201.U07.01.04	Recognize event-driven technical reviews associated with P&D
ENG 201.U07.01.05	Identify technical baselines associated with EMD
ENG 201.U08.01	Apply Systems Engineering activities critical to the Operations & Support phase
ENG 201.U08.01.01	Identify the key Inputs and their importance in the O&S phase
ENG 201.U08.01.02	Identify the key Outputs and their importance in the O&S phase
ENG 201.U08.01.03	Recognize key SE activities during the O&S phase
ENG 201.U08.01.04	Recognize event-driven technical reviews associated with O&S