



## Objectives Sheet

### ENG 0860 - Planning for R&M Engineering

#### *Course Learning/Performance Objectives followed by enabling learning objectives*

<b>ENG 0860.U01.01</b>	<b>Given user requirements and the Reliability and Maintainability (R&amp;M) Engineering Activities for the Materiel Solution Analysis (MSA) Phase, the learner will describe the R&amp;M Engineering Activities that are used to develop R&amp;M requirements.</b>
ENG 0860.U01.01.01	Given an introduction to Reliability and Maintainability (R&M) definitions, the learner will recognize how the R&M definitions in the Initial Capabilities Document (ICD) are used to develop a uniform quantitative basis as a common denominator for all program study efforts
ENG 0860.U01.01.02	Given proposed user requirements, the learner will calculate parameters using standard Reliability and Maintainability (R&M) equations.
ENG 0860.U01.01.03	Given the results of Reliability and Maintainability (R&M) calculations, the learner will identify the parameters that do not meet the user requirements.
ENG 0860.U01.01.04	Given a Systems Engineering Plan (SEP) outline and the Reliability and Maintainability (R&M) requirements, the learner will recommend the R&M Technical Performance Measures (TPMs) for inclusion in the SEP.
ENG 0860.U01.01.05	Given the Failure Definition and Scoring Criteria, the learner will describe the scoring of sample failure descriptions.
ENG 0860.U01.01.06	Given a reliability translation process, the learner will identify the process to translate a user requirement to a contract specification requirement.
ENG 0860.U01.01.07	Given a description of the Capabilities Development Document (CDD), the learner will recognize the CDD's content, structure, and purpose.
<b>ENG 0860.U01.02</b>	<b>Given User requirements and the Reliability and Maintainability (R&amp;M) activities for the Technology Maturation and Risk Reduction (TMRR) phase, the learner will describe the R&amp;M tasks that are used to develop R&amp;M planning documents.</b>
ENG 0860.U01.02.01	Given an overview of a Systems Engineering Plan (SEP) in the Technology Maturation and Risk Reduction (TMRR) Phase, the learner will identify its structure and content for those Reliability and Maintainability (R&M) inputs unique to the TMRR phase.
ENG 0860.U01.02.02	Given user requirements for reliability and a contractor's proposed system design with a baseline of reliability values, the learner will identify the essential elements needed to plan a sound reliability growth program and planning curve.
ENG 0860.U01.02.03	Given an overview of a Reliability, Availability, Maintainability, and Cost (RAM-C) Report in the Technology Maturation and Risk Reduction (TMRR) Phase, the learner will identify its structure and content for those Reliability and Maintainability (R&M) inputs unique to the TMRR phase.
ENG 0860.U01.02.04	Given the Technology Maturation and Risk Reduction (TMRR) Phase Reliability and Maintainability (R&M) thresholds in the TMRR Systems Engineering Plan (SEP), the learner will identify the implications to system cost and availability resulting from any changes to these thresholds from the previous phase.
ENG 0860.U01.02.05	Given the Milestone A Systems Engineering Plan (SEP), Reliability, Availability, Maintainability, and Cost (RAM-C) documents and a new user requirement, the learner will identify the sections that will require updates.
<b>ENG 0860.U01.03</b>	<b>Given program acquisition documentation and the Reliability and Maintainability (R&amp;M) activities for the EMD phase, the learner will describe the R&amp;M tasks that are used to develop R&amp;M planning documents throughout the life cycle.</b>
ENG 0860.U01.03.01	Given the Government's Reliability and Maintainability (R&M) program plan for Engineering and Manufacturing Development (EMD), the learner will compare the plan with Test and Evaluation Master Plan (TEMP) to identify missing information from the R&M program plan.
ENG 0860.U01.03.02	Given the Government's Reliability and Maintainability (R&M) program plan, the learner will compare the plan with the system specification to identify missing or inconsistent information from the R&M program plan
ENG 0860.U01.03.03	Given an overview of a Systems Engineering Plan (SEP) in the Production and Deployment (P&D) Phase, the learner will identify its structure and content for Reliability and Maintainability (R&M) inputs unique to the P&D phase.
ENG 0860.U01.03.04	Given an overview of a Reliability, Availability, Maintainability, and Cost (RAM-C) Report in the Production and Deployment (P&D) Phase, the learner will identify its structure and content for Reliability and Maintainability (R&M) inputs unique to the P&D phase.