EO 001.01 - Analyze Link 11

001.01.04- Mitigate Link 11 Limitations

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Conditions** | | | | **Sequence** |
| Classroom with Workstations and Projector | | | | After LO 001.01.03 |
| **Time** | | **Classification** | | **Instructor** |
| 50 minutes | | Unclassified | | TDL 300 Qualified Instructor |
|  | | | | |
| **Learning Objectives** | | | | **Method** |
| 1) Identify Link 11 Participating Unit and Track block values  2) Identify Relationship between System Coordinate Center, Data Link Reference Point, Unit Position and Track Positions  3) Identify Track Quality Limitations imposed by Link 11  4) Identify Track Identity and Amplification Limitations imposed by Link 11 | | | | * Guided Discussion * Interactive Lecture * Think Pair Share * Best Summary |
|  | | | | |
| **Scenario** | Nil | | | |
| **Activity**  **Steps** | **Introduction -**   1. The instructor will open the lesson with a guided discussion on how one would describe their location to another person over the phone. The purpose of this is to introduce the idea of cartesian (distance from a fixed point), and geodetic (a point described with a map) coordinates.   **Activity -**   1. The instructor will point out the relevant information contained within the TDL 200 Workbook matching this lesson. 2. The instructor will deliver an Interactive Lecture covering the LOs 3. The instructor will assign the TDL 200 Workbook assignment on octal notation 4. The instructor will lead a think pair share exercise by assigning a point in the room as DLRP, and have trainees describe their location as SCC, and a series of objects as tracks. The trainees will attempt to identify the object referenced by the cartesian coordinates.   **Conclusion -**   1. The instructor will lead a best summary to sum up the lecture. | | | |
|  | | | | |
| **Resources** | | | **References** | |
| 1) PowerPoint Slides  2) TDL Workbook  3) TDL 200 Toolkit | | | 1) MIL-STD 3011  2) STANAG 5511  3) Understanding Link 11  4) AIT Manual | |
|  | | | | |
| **Notes to Instructor** | | | | |
| Refer to AIT manual for conducting advanced instructional techniques referenced in the lesson.  The purpose of the think pair share is to understand the mathematical calculations used in the calculation of unit and track positions, and to understand that there are fundamental limitations on range possible with Link 11, not to be able to perform the calculations themselves. | | | | |