EO 001.01 - Analyze Link 11

001.01.02 - Describe Link 11 Radiation Characteristics

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| **Conditions** | | | | **Sequence** |
| Classroom with Workstations and Projector | | | | After LO 001.01.01 |
| **Time** | | **Classification** | | **Instructor** |
| 50 minutes | | Unclassified | | TDL 300 Qualified Instructor |
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| **Learning Objectives** | | | | **Method** |
| 1) Identify HF and UHF Frequency Bands and Characteristics  2) Identify Link 11 Waveforms (SLEW and CLEW)  3) Identify Antenna Types and Radiation Patterns  4) Identify Atmospheric Impacts on Radio Frequencies  5) Identify Link 11 Roles, Operating Modes and Duties | | | | * Interactive Lecture * Group Discussion * Confirmation Questions * Best Summary |
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| **Scenario** | Nil | | | |
| **Activity**  **Steps** | **Introduction** -   1. The Instructor will then in a group discussion query the Trainees on their background in Radio Theory. The Instructor can leverage Trainees that possess advanced knowledge of this Theory.   **Activity** -   1. **Show a video here if possible!** 2. The Instructor will point out the relevant content in the Link 11 Chapter of the TDL 200 Workbook. 3. The Instructor will deliver an Interactive Lecture using the PowerPoint Slides, until slide 10 4. At slide 10, the Instructor will lead a group discussion around the “Balloon Thought Experiment”. An actual balloon may be used if desired. 5. The Instructor will deliver the remainder of the Interactive Lecture using the PowerPoint Slides   **Conclusion** –   1. The Instructor will conduct a Best Summary to sum up the lesson. 2. The Instructor will ask confirmation questions to validate Trainee learning. | | | |
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| **Resources** | | | **References** | |
| 1) Powerpoint Slides  2) TDL 200 Workbook  3) Confirmation Questions  4) TDL Toolkit  **5) The VIDEO** | | | 1) MIL-STD 3011  2) STANAG 5511  3) Understanding Link 11  4) [HF Radio Propagation (spaceweather.gc.ca)](https://spaceweather.gc.ca/hf-prop/hf-prop-en.php)  5) AIT Manual | |
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| **Notes to Instructor** | | | | |
| Refer to AIT Manual for how to conduct a best summary.  Care should be exercised to keep the discussion at level that focuses on an impact to operations – there is depth to the topic that is not appropriate for the level expected for this EO. | | | | |