

# Publications and Training Solutions

## Course Syllabus: 523-0808417

### **WARNING: INFORMATION SUBJECT TO EXPORT CONTROL LAWS**

This document may contain technical data that is controlled for export under the International Traffic in Arms Regulation (ITAR), 22 CFR 120-130. Violations of these laws may be subject to fines and penalties under the Arms Export Control Act (22 U.S.C. 2778).

Export Control Classification Notice (ECCN) is CAT XI(d).

### **PROPRIETARY NOTICE**

### **NOTICE: FREEDOM OF INFORMATION ACT (5 USC 552) AND DISCLOSURE OF CONFIDENTIAL INFORMATION GENERALLY (18 USC 1905)**

This document and the information disclosed herein are proprietary data of Rockwell Collins. Neither this document nor the information contained herein shall be used, reproduced, or disclosed to others without the written authorization of Rockwell Collins, except to the extent required for installation or maintenance of recipient's equipment. This document is being furnished in confidence by Rockwell Collins. The information disclosed herein falls within exemption (b) (4) of 5 USC 552 and the prohibitions of 18 USC 1905.

### **SOFTWARE COPYRIGHT NOTICE**

© COPYRIGHT 2018 ROCKWELL COLLINS, INC. ALL RIGHTS RESERVED.

All software resident in this equipment is protected by copyright.

### **FOR TRAINING PURPOSE ONLY**

## Publications and Training Solutions

### Course Syllabus: 523-0808417

**COURSE TITLE:** TALON Communications Management (DL-8171)

**PREREQUISITES:** This course may require State Department approval.

Students should be able to score 70 or better on the English Comprehension Level (ECL) Test. Students should be proficient in the use of Windows® based Personal Computers and must have previously completed one of the Talon Receiver-Transmitter Operator Courses.

**PURPOSE:**

This course provides the training necessary to Install, Setup, and Operate the Data Loader System DL-8171, to Generate and Load Datafill files into Talon Radio Receiver-Transmitters, in support of Communications Mission Planning.

The Talon Communications Management system consists of the line replaceable units (LRUs) identified in the section titled EQUIPMENT TYPE by nomenclature and part number, including associated peripheral equipment identified as deliverable hardware.

**OBJECTIVES:** Upon completing this course, the student will be able to:

1. Using the LOS VHF/UHF Datafill Manager (DM™) Software, create Datafill files (databases) for subsequent loading into a Hand-Held Datafill Device (HDD).
2. Clearly name and organize the database files with respect to the differences that distinguish one database from another.
3. Prepare Datafill files for transfer to the Harris Radio Frequency (RF) Communications Radio Programming Application (export XML).
4. Demonstrate the ability to transfer Datafill Files from the host PC to the HDD.
5. Using the Talon Data Loader System DL-8171, demonstrate the ability to physically connect the HDD to the target radio and load unclassified Datafill files into (one of) a variety of Talon Radio Receiver-Transmitters.
6. To support data loading, demonstrate the ability to:
  - a. Configure the Data Loader
  - b. Start the LOS HDD Application on the Data Loader
  - c. Configure the LOS HDD Application
7. Upon initial equipment receipt, perform required equipment software installation procedures:
  - a. Host PC Software Installation
  - b. Data Loader Software Installation

**COURSE LENGTH:** 5 Days

## Publications and Training Solutions

### Course Syllabus: 523-0808417

#### TRAINING DEVICES:

1. Equipment (Line Replaceable Units (LRUs):
  - a. RT-8200 Receiver-Transmitter
  - b. RCU-8150 Remote Control Unit
  - c. Audio Panel
2. Special Test Equipment:
  - a. DL-8171 Data Loader

#### TRAINING MATERIALS:

1. PowerPoint Presentation with LCD/Box Light projector
2. Student Guide – Flash drive (pdf) – Training Presentation  
Assignment Sheets  
Job Sheets  
Diagram Sheets  
Test Sheets
3. Instructor Guide

#### REFERENCES:

- |  |              |
|--|--------------|
| 1. User's Guide for the LOS (VHF/UHF) DM™ System<br>Rev. C (Proprietary Information) | 963-1561-003 |
| 2. Data Loader System DL-8171 Instruction Book                                       | 523-0806156  |
| 3. Talon RT-8200( ) and RCU-815X( ) Instruction Book                                 | 523-0806735  |

# Publications and Training Solutions

## Course Syllabus: 523-0808417

### COURSE OUTLINE

#### 0. Welcome & Introductions

- A. Course Overview
  - i. Welcome
  - ii. Student Registration
  - iii. Student Policies and Procedures
- B. Course Overview (Instructor)
  - i. Instructor and Student Introductions
  - ii. Course Description
  - iii. Course Objectives
  - iv. Course Outline
  - v. Course Material

#### 1. Overview of the Talon Data Loader System DL-8171

- A. Fundamentals of HF Propagation
- B. Factors Effecting HF Propagation

#### 2. General Systems Description

- A. General Description
  - i. Purpose
  - ii. Equipment Supplied
    - 1. Intermec™ 600 Series **OR**
    - 2. Tripod Data Systems™ Recon™ 400 Series
  - iii. Associated Equipment
  - iv. Related Publications

#### 3. Installation

- A. Software Installation
  - i. Host PC Software Installation
  - ii. Data Loader Software Installation

## Publications and Training Solutions

### Course Syllabus: 523-0808417

#### B. Data Loader Installation

- i. Intermec™ 600 Series (CPN: 822-1715-001) OR
- ii. Tripod Data Systems™ Recon™ 400 Series

#### 4. DL-8171 Operation (Overview)

- A. General
- B. Controls and Indicators
- C. Operating Procedures
  - i. General Datafill Files
- D. Transferring Datafill Files to the Data Loader
- E. Data Filling a Receiver-Transmitter
  - i. Configuring the Data Loader
  - ii. Starting the LOS HDD Application
  - iii. Configuring the LOS HDD Application

#### 5. Datafill Manager Operation (984-1692-003 OR 984-1692-004)

- A. Starting LOS (VHF/UHF) DM™ System
  - i. Creating a Desktop Shortcut and/or Changing the Shortcut Icon
  - ii. LOS (VHF/UHF) DM™ System Main Window
    1. File Menu Functions
    2. Edit Menu Functions
    3. Tools Menu
- B. Entry, Editing, or Importing of Presets
  - i. Simplex Presets
  - ii. Half-Duplex Presets
  - iii. WOD/MWOD
  - iv. Have Quick FMT
  - v. SATURN Training
  - vi. ECCM Presets

## **Publications and Training Solutions Course Syllabus: 523-0808417**

- vii. Have Quick Presets
- viii. SINGCARS Presets
- ix. TALON Presets
- x. SATURN Presets
- xi. TALON Frequency Tables 1 and 2
- xii. Platform Configuration
- xiii. TALON Import Files
- xiv. Encryption A
- xv. Citadel Key Fill
- xvi. Quicklook 1A Presets
- xvii. Quicklook 1A Locksets
- xviii. Datafill Screen

### **6. Database Management**

- A. Database Organization and File Names
- B. Datafill Manager File Extensions

### **7. Import/Export**

- A. Enabling/Disabling XML Functionality
- B. XML Export Forms
  - i. Simplex Presets
  - ii. Half-Duplex Presets
  - iii. Citadel Key Fill
  - iv. TALON Presets
  - v. Quicklook 1A Presets
  - vi. Quicklook 1A Locksets
- C. Saving XML Files

### **8. Practical and Laboratory Exercises**

## Publications and Training Solutions Course Syllabus: 523-0808417

### 9. Summary – Review - Critique

#### EQUIPMENT TYPE:

EQUIPMENT	NOMENCLATURE	PART NUMBER
Receiver-Transmitter	RT-8200	822-1774-001
Remote Control Unit	RCU-8150	822-1673-001
Line-of-Sight (LOS) Data Loader System	DL-8171	822-1715-001 <u>OR</u> 822-1715-002



#### **NOTE:**

*This is an all-inclusive example of a representative course. To the maximum extent possible, the Equipment Part Numbers, References, and Course Outline will be modified to fit the requirements of each particular class.*

*For example, if the RT-8XXX is not SATURN capable, this feature will be deleted from the Course Outline and not discussed. However, the courseware for this feature will be developed and will be available for use if required for other courses.*