



DFS TRAINING PROGRAM - 2023



General Training

1 **Universal Overview** **ASC**
 2 Days/16 Hrs
 *Overview of all products
 *Core knowledge for all users
 *Certificate of Completion

SCADA Admin Training

2 3 **HSS Ladder Logic** **SOP**
 5 Days/40 Hrs
 *Basic & practical ladder logic
 *Central-based ladders only

3 **HSS Advanced** **SOP**
 2 Days/16 Hrs
 *HSS & HyperTAC operation
 *Supports SCADA operator quals
 *Configuration editing & monitoring
 *No screen building

3 **HSS Screen Building** **SOP**
 3 Days/24 Hrs
 *Custom screen design & drafting
 *HyperTAC graphics only

2 5 **HSS Supervisor** **MGR**
 2 Days/16 Hrs
 *MGR processes
 *SCADA admin course

Operation & Maintenance

1 **Scheduled Lifecycle Maintenance (SLM)**
 1 Day/8 Hrs
 *Preventive Maintenance Overview & Planning

1 **TCU Operation & Maintenance Training**
 2 Days/16 Hrs
 *Manual Configuration
 *Field replacement
 *TCU SLM

1 **RTU Operation & Maintenance Training**
 2 Days/16 Hrs
 *Modules functional Description
 *Local Configuration
 *RTU SLM

1 **HSS Operation & Maintenance Training**
 2 Days/16 Hrs
 *SCADA operations software overview
 *Configuring alarms, trends, & reports
 *HSS SLM

DFS Orientation Training

- No cost to DFS Customers
- Lunch provided (Cuban Sandwich)
- Scheduled quarterly by DFS

1 **DFS Orientation** **ASC**
 1 Day/8 Hrs
 *DFS HQ Melbourne, FL only.
 *Scheduled quarterly.
 *Certificate of Attendance.

Intermediate Training

Panel specific training for new installations

2 **Intermediate TCU** **OPR**
 2 Days/16 Hrs
 *Specific TCU panel installation emphasized
 *Systems engineering project support

2 **Intermediate RTU** **OPR**
 2 Days/16 Hrs
 *Specific RTU panel installation emphasized
 *Systems engineering project support

2 **Intermediate HSS** **SOP**
 2 Days/16 Hrs
 *DFS HSS Hardware & Software
 *SCADA installation project support

Advanced Training

4 **Advanced TCU** **TECH**
 2 Days/16 Hrs
 *Configuration procedures
 *Electrical controls wiring processes
 *Design modifications/panel integration

4 **Advanced RTU** **TECH**
 2 Days/16 Hrs
 *Configuration procedures
 *Electrical controls wiring processes
 *Design modifications/panel integration

3 **Advanced Radio Telemetry** **TECH**
 3 Days/24 Hrs
 *Basic radio theory
 *DFS radio specifications
 *Supports tech certifications

Technician Certification

Additional Advanced Radio Telemetry Training recommended

1 **HSS Technician (HT4)** **CERT**
 5 Days/40 Hrs
 *Basic/O&M and Advanced HSS + Screen Building + SLM
 *Maximum training effort for professional SCADA operators
 *DFS HSS Technician certification awarded

1 **TCU Technician/VFD TCU Technician** **CERT**
 5 Days/40 Hrs
 *Basic/O&M and Advanced TCU + SLM
 *Maximum training effort for TCU maintenance personnel
 *DFS TCU Technician certification awarded

1 **RTU Technician** **CERT**
 5 Days/40 Hrs
 *Basic/O&M and RTU Advanced Maint + SLM
 *Maximum training effort for RTU maintenance personnel
 *DFS RTU Technician certification awarded

Programmable Logic Controller (PLC800)

6 **PLC & Process Management** **TECH**
 5 Days/40 Hrs
 *Advanced theory, operation, & maintenance of DFS PLC modules
 *Prerequisites include screen building & ladder logic
 *Deploys Modbus PLC programming and controls
 *Portable PLC development kit used

1 DFS Customer	MGR	SCADA Admin
2 Basic Tech skills	CERT	Certified Tech
3 Adv Tech skills	TECH	Equipment Tech
4 Electrical skills	SOP	SCADA Operator
5 MGR authority	OPR	Equipment Operator
6 Programming Skills	ASC	DFS Associate

Manager - SCADA administrator and DFS point-of-contact
Certified Technician - Permanent technician certification
Technician - Hardware & software troubleshooter/maintainer
Operator - SCADA Workstation and/or Field Terminal Operator
Associate - Familiar with hardware & software
Exam & Certificate of Achievement optional
Courses required to attain "Master Technician" certification
CEUs awarded

SLM = Scheduled Lifecycle Maintenance