

Alliance Systems Field Based Training

FSE Name:
Senior FSE:
SUBJECT: Alliance Systems (2695, 2695D, 2795) TUV (2487, 2489) PDA (2996, 2998)
WHAT IS THIS DOCUMENT FOR? The function of this document is to show progression of a Field Service Engineer (FSE) through the key skills and tasks required to be certified while working on an Alliance System consisting of an Alliance with a TUV or PDA detector. HOW IS THIS DOCUMENT USED? A partnership will be set- up by the local manager between a Senior FSE and an FSE The Senior FSE's role will be to answer questions and guide the FSE through the coaching topics. The Senior FSE will also be expected to advise and lead the FSE through situations that may arise on site, including discussing when and why it is applicable to run certain tests. It is extremely unlikely the entire contents of the Key Skills and Tasks document will be completed in a single sitting. The Senior FSE is also required to assess the competence of the FSE in performing the key skills and tasks. The coach may also be required to recommend to the FSE's manager of corrective action that is required to bring the FSE's skill up to the required standard. The Senior FSE must also document the FSE's progress through completing this document. Overall a professional image must be presented to the customer at all times. AIMS OF THE SESSIONS The aim is to train a Field Service Engineer in Set- up, Installation/ Relocation (where required) Preventive Maintenance, Service and Troubleshooting of all the Alliance System Instruments.

OBJECTIVES OF THE SESSIONS

At the end of the session attendees will be able to:

- Properly install all instruments in an Alliance System individually
- Properly install an Alliance System as a complete System
- Properly control and operate an Alliance System in stand-alone mode
- Properly control and configure an Alliance System through Empower and MassLynx
- Properly use the diagnostics on all instruments in an Alliance System
- Properly and effectively troubleshoot and repair all instruments in an Alliance System

BACKGROUND KNOWLEDGE/EXPERIENCE OF GROUP

All attendees are expected to possess the following qualifications:

- Environmental Health and Safety
- Alliance Foundational
- Empower Software
- LC Foundational Exam

LEARNING RESOURCES/REFERENCES:

In support of this training, the following materials should be accessed from the Service Training Legacy Program Materials folder in the Public Documents area of the Product Training Packages Collaboration Room:

- Alliance Systems In-Field Program

IMPARTED QUALIFICATIONS:

- 2487 ABSORBANCE DETECTOR
- 2489 ABSORBANCE DETECTOR
- 2695 ALLIANCE
- 2795 ALLIANCE HT
- 2796 ALLIANCE BIOSEPARATIONS
- 2996 PHOTODIODE ARRAY DETECTOR
- 2998 PHOTODIODE ARRAY DETECTOR

Key Skills and Tasks	Completed?
1. Completed reviewing of the following procedures based on the in-field training module	
a. Understands and practices safe working on the Alliance Systems	☐
b. Successfully install, operate and maintain an Alliance System	☐
c. Completely review, understand and pass the Alliance Foundational	☐
d. Completed all of the Foundational work that should have been completed	☐
2. Watch and complete each of the following videos. The videos can be found under the appropriate section in the video library on the Portal.	
a. Replacing all seals (2695)	☐
b. Replacing a check valve cartridge (2695)	☐
c. Replacing the In-Line filter (2695)	☐
d. Replacing the Syringe (2695)	☐
e. Seal pack rebuild/Needle replacement	☐
f. 2690 start up and overview (2695)	☐
g. 2487 grating replacement (2487)	☐
h. Replacing the lamp (2489)	☐
i. Rebuilding the analytical flow cell (2489)	☐
j. Diagnostics (2489)	☐
k. Overview (2998)	☐
l. Major Assemblies and theory (2998)	☐
m. Differences between 2996, 2998 and ACQUITY PDA (2998)	☐
n. Console (2998)	☐
o. Aligning the M1 mirror (2998)	☐
p. Aligning the M2 mirror (2998)	☐
q. Rebuilding the analytical flow cell (2998)	☐
r. Replacing the lamp (2998)	☐
3. Successfully review and complete the following procedures located under the appropriate Reference Information section on the Portal.	
a. Alliance HT Guidelines (2795)	☐
b. XYZ Initialization sequence (2795-under XYZ Mechanism)	☐
c. Adjusting the XYZ mechanism (2795-under XYZ Mechanism)	☐
d. Needle height calibration (2795-under XYZ Mechanism-2795 Needle assembly)	☐
e. Rebuild/Replace 2795 needle assembly (2795-under XYZ Mechanism-2795 Needle assembly)	☐
f. Replace inject port seals (2795-under Injector valve assembly)	☐
g. Rebuilding the 2795 injector valve (2795-under Injector valve assembly)	☐
h. HPMV Repair (2695-under Sample Management)	
i. Replacing the lamp housing window (2487-under Optics)	☐
j. Replacing M1, M2/M3 mirrors (2487-under Optics-Mirrors)	☐
k. Verifying Wavelength (2487-under Optics)	☐
l. Replacing the Beam splitter (2487-under Optics)	☐
m. Replacing the Beam splitter (2996- under Service Procedures)	☐
n. Replacing the M1 mirror (2996- under Service Procedures)	☐
o. Replacing the M2 mirror (2996- under Service Procedures)	☐
4. Successfully completed the following:	
a. Perform a PM on a 2695	☐
b. Perform a PM on a 2795	☐
c. Perform a PM on a 2489/2487	☐
d. Perform a PM on a 2998/2996	☐
e. Installation and Start up of an Alliance System consisting of a 2695/2795 and a TUV/PDA	☐

Field Service Report (FSR) record to support Certification

Please enter the details of 3 PM's and 3 RS numbers for each product below

Instrument Type	PM/ RS Number	Instrument Serial Number	Customer Site	Brief description of work carried out
2695 (RS)				
2695 (RS)				
2695 (RS)				
2695 (PM)				
2695 (PM)				
2695 (PM)				
2795 (RS)				

Instrument Type	PM/ RS Number	Instrument Serial Number	Customer Site	Brief description of work carried out
2795 (RS)				
2795 (RS)				
2795 (PM)				
2795 (PM)				
2795 (PM)				
PDA 2996/2998 (RS)				
PDA 2996/2998 (RS)				

Instrument Type	PM/ RS Number	Instrument Serial Number	Customer Site	Brief description of work carried out
PDA 2996/2998 (RS)				
PDA 2996/2998 (PM)				
PDA 2996/2998 (PM)				
PDA 2996/2998 (PM)				
TUV 2487/2489 (RS)				
TUV 2487/2489 (RS)				
TUV 2487/2489 (RS)				

Instrument Type	PM/ RS Number	Instrument Serial Number	Customer Site	Brief description of work carried out
TUV 2487/2489 (PM)				
TUV 2487/2489 (PM)				
TUV 2487/2489 (PM)				

FSE's Signature	Date
Senior FSE Signature	Date
Manager's Signature	Date

Once completed please scan and e-mail the checklist to:

Denise Morin

OR

Karen Stead