DFL7160 Tier 2

(Rev. 1.00)

Trainee (受講者)	
Company (会社名)	



Module (モジュール)			Sign-off (サインオフ欄)		
		Date (日付)	Trainee (受講者)	Trainer (トレーナー)	
Day 1					
1. Safety					
1.1. Understand the Intrinsic Hazard Points and Avoidance Measures during Maintenance	2				
2. Setting Device Data					
2.1. Edit Device Data Files	26				
2.2. Configure Device Data	42				
2.3. Utilize Sub Index Data	55	·			
2.4. Configure Street Cut Sequence Data	68				
2.5. Configure Cleaning Data	76				
2.6. Configure Process Control Table	85				
2.7. Configure Alignment Data	103				
2.8. Measure Index	119				
2.9. Execute Alignment Teach Operation	125				
2.10. Execute Kerf Check	156				
3. Setting Basic Operation Data of the Machine					
3.1. Execute Function Data Maintenance	176				
4. Machine Structure					
4.1. Understand the Structures of Major Axes	194				
4.2. Understand the Structures of Major Movement Sections	206				
Day 2					
5. Machine Maintenance					
5.1. Set the Pressure Sensor	223				
5.2. Implement Frame Size Change	247				
5.3. Execute Focus Maintenance	261				
5.4. Operate Axes with the Axis Operation Screen	270				
5.5. Register the Frame Size	291				
6. Log Data					
6.1. Use Log Viewer	317				
6.2. Use Log Analyzer	344				

Module		Sign-off (サインオフ欄)		
(モジュール)	Page (ページ)	Date (日付)	Trainee (受講者)	Trainer (トレーナー)
7. Laser Maintenance				
7.1. Employ the Laser Maintenance (4.0) Screen	360			
7.2. Perform Laser Power Adjustment	386			
7.3. Perform Attenuator Maintenance	396			
7.4. Check Laser Information	410			
7.5. Set the Laser Setup Data	414			
7.6. Set the Laser Expendable Supplies Management Data	420			
8. Engineering Maintenance				
8.1. Set User Define Data	427			
8.2. Use the Maintenance Scheduler	437			
8.3. Check Sensors and Manipulate Solenoid Valves by the I/O Check Screen	446			
Day 3				
9. Periodic Inspection and Maintenance				
9.1. Adjust Air and Washing Water Pressure	468			
9.2. Adjust Utilities for the Atomizing Nozzle for Cleaning	476			
9.3. Clean Vacuum Ejectors	480			
9.4. Grease the X-axis	486			
9.5. Grease the Y-axis	492			
9.6. Grease the θ-axis	499			
9.7. Grease the Upper Arm	505			
9.8. Grease the Lower Arm	513			
9.9. Check the Operation of Cooling Fan Motors	519			
10. Consumable Parts Replacement				
10.1. Replace the Chiller Coolant	525			
10.2. Replace the Air Clean Unit	530			
10.3. Replace the Blow Line Filters	545			
10.4. Replace the Vacuum Pads of the Upper Arm Section	553			
10.5. Replace the Vacuum Pads of the Lower Arm Section	561			
10.6. Replace the Halogen Lamps	569			
10.7. Replace Solenoid Valves	575			
10.8. Replace the Bellows	609			

Module		(サインオフ欄)		
(モジュール)	(ページ)	Date (日付)	Trainee (受講者)	Trainer (トレーナー)
11. Tool Manual				
11.1. Search for the Necessary Information in the Tool Manual	618			
11.2. Deal with the Occurred Errors	622			
12. Optional Item (User-specified Specification)				
12.1. Operate the Protective Coating Function	632			
12.2. Configure Data for Protective Coating Function	652			
12.3. Execute Recovery Operations for Protective Coating Function Errors	672			
12.4. Execute Maintenance Operations for the Protective Coating Function	680			
12.5. Clean the Process Point Nozzle for Grooving Specification	694			
13. Appendix				
13.1. (Appendix) Notice Regarding Incidence of Parts Corrosion in Laser Processing	750			
14. Appendix (Oscillator Type-A)				
14.1. (Appendix) Employ the Laser Maintenance (4.0) Screen (Type-A)	753			
14.2. (Appendix) Perform Laser Power Adjustment (Type-A)	784			
14.3. (Appendix) Check Laser Information (Type-A)	804			
14.4. (Appendix) Set the Laser Setup Data (Type-A)	809			
14.5, (Appendix) Set the Laser Expendable Supplies Management Data (Type-A)	815			
14.6. (Appendix) Replace Chiller Coolant (Type-A)	821			
			:	i

Course composition, intended trainees and course objective

Course Name	Intended Trainees		Course Objective
Tier 1	who operates the machine to process products	\rightarrow	To enable trainees to understand the terms necessary for operating the machine and to process products by calling up the data set in the machine
Tier 2	- who has already completed the "Tier 1" course (or has equivalent operation skills) - who conducts data and function settings of the machine - who conducts periodic maintenance of the machine	\rightarrow	To enable trainees to create the data and set the data and functions for operating the machine To enable trainees to safely and precisely perform the periodic maintenance and consumable parts replacement described in the Maintenance Manual of the machine
Tier 3	- who has already completed the "Tier 2" course (or has equivalent operation skills) - who conducts maintenance works which are not described in the Maintenance Manual of the machine	\rightarrow	To enable trainees to conduct maintenance works which are not described in the machine Maintenance Manual (only the items that can be executed without any special tools or access to the internal Maker Data)