

Bus Operator Program Content

Name	Title	Content	Duration
Orientation Module	General Orientation - Drivers Nova Bus Familiarization	A. History of Nova Bus B. Bus operation and operator controls C. Tour of the bus D. Bus special components and features	4 hrs
	General Orientation - Mechanics General Procedure	A. Bus operation and operator controls B. Compartment-by-compartment tour of the bus C. Safety procedures D. Towing and recovery E. Periodic/Preventative maintenance procedures	4 hrs

Maintenance Training Program Content

Name	Title	Content	Duration
Electrical / Electronics	Coach Wiring Diagram	A. Explanation of wiring diagrams and wiring codes B. Referencing and tracing circuits C. Identifying and locating components D. Explanation of schematic indexes	8 hrs
	Multiplex System (V-BEA)	A. Location of all key electrical components B. Explanation of charging system and basic troubleshooting C. Explanation of exterior and interior lighting system and basic troubleshooting D. Explanation of safety shutdown system, including warning indicators and basic troubleshooting E. Operation of the multiplex system	24 hrs
	Multiplex System Hands-on and Troubleshooting	A. Laptop setup B. Function block diagrams C. Intuitive Diagnostic & Trouble shooting techniques using buses	8 hrs
Access Ramp Equipment & Door Adjustment	Ramp Systems	A. Explanation of ramp lift system and location of all ramp lift components B. Explanation of ramp lift electrical system C. Proper ramp lift adjustment procedures D. Basic ramp lift system troubleshooting	8hrs
	Door Systems	A. Explanation of door system and location of all door components B. Explanation of door electrical system C. Proper door adjustment procedures D. Basic door system troubleshooting	
Body	Bus Body Floor & Glasses	A. Explanation of the body and and the attachment method of exterior panels B. Explanation of glass replacement C. Explanation of composite floor repair principles	8 hrs
Articulation	Articulated System	A. Explanation and features of the articulation system B. Troubleshooting with articulation software C. Description of articulation and envelope installation D. Preventive maintenance of system	8 hrs
Parts	Parts Warranty and Service	A. Explanation of the Parts Manual and how it is divided B. Explanation of the parts numbering system C. Orientation to the bus and components on the bus D. Practice in finding parts in the Parts Manual	2 hrs
Inspection and Maintenance	Inspection and Maintenance Schedule	A. Review of suggested bus inspection and maintenance schedule B. Tour of the bus and review of basic adjustment	4 hrs
Fire Suppression	Introduction to Fire Suppression	A. Explanation of the fire suppression system main components. B. Basic troubleshooting and maintenance	4 hrs
Orientation Module	General Orientation First Responder	A. Familiarisation to bus B. Shutdown procedure and safety	2 hrs
Towing and Lifting	Towing and Lifting	A. Safety Procedures B. Towing and Recovery Procedures C. Lifting Procedures	4 hrs

Diesel Training Program Content

Name	Title	Content	Duration
Electrical Cooling & Engine Environment	Engine Environment & Urea system	A. Explanation and location of engine environment components B. Explanation of hydraulic system C. Explanation of the electrical engine cooling system and the location of key components D. Explanation of urea global principle and transformation concept	4 hrs
Suspension, Steering, Axles	Suspension, Steering, Axles	A. Explanation of the suspension system B. Basic repairs to the suspension system C. Basic troubleshooting of the suspension system D. Explanation of the steering system E. Basic troubleshooting of the steering system F. Explanation of the axles G. Draining and lubrication of the axles	8 hrs
Pneumatics	Pneumatic System (Suspension, Brakes, Kneeling)	A. Explanation of air system with location of all air system components B. Basic air system troubleshooting C. Air system preventative maintenance	8 hrs
Brakes	Brake Pad Replacement	A. Explanation of the brake-wear indicator B. Brake pad replacement C. Testing and safety procedures	8 hrs
	Bearing and Rotor Replacement	A. Wheel bearing service interval B. Removal and replacement of front and rear wheel bearings C. Inspection of wheel bearing for reuse D. Cleaning and repacking wheel bearings	8 hrs
HVAC	Introduction to HVAC System	A. Explanation of the HVAC and system main components. B. Explanation of the electronic controls. C. Basic troubleshooting and maintenance	8 hrs

Hybrid Training Program Content

Name	Title	Content	Duration
Transmission and Controls	BAE Hybrid transmission Maintenance Familiarization Training	A. System Overview B. Safety C. Preventive / Corrective Maintenance D. Diagnostics & Troubleshooting E. IDS Basics	16 hrs
	IDS Troubleshooting Follow up training	A. High Voltage/High Power B. HybriDrive® Propulsion System Review C. ESS Overview, Theory of Operation D. ESS Fault Detail and Special Tools	8 hrs
Pneumatics	Pneumatic System (Suspension, Brakes, Kneeling)	A. Explanation of air system with location of all air system components B. Basic air system troubleshooting C. Air system preventative maintenance	8 hrs
Air System	Air System	A. Explanation of the air system with the location of all air system components B. Basic trouble-shooting of the air system C. Preventive Maintenance of the air system	8 hrs
Brakes	Brake pad and disc replacement	A. Explanation of the Brake wear indicator B. Brake pad inspection and replacement C. Disc inspection and replacement	8hrs
Suspension, Steering, Axles	Suspension, Steering, Axles	A. Explanation of the suspension system B. Basic repairs to the suspension system C. Basic trouble-shooting of the suspension system D. Explanation of the steering system E. Basic trouble-shooting of the steering system F. Explanation of the Axles	8 hrs
HVAC	Electric HVAC Familiarization	A. Presentation and localization of HVAC key components B. Explanation of controls	4 hrs
	Electric HVAC Maintenance, troubleshooting and diagnostic	A. Security procedure B. Maintenance procedure, routine inspection and service C. Troubleshooting and diagnostic procedure	4hrs
Fire Suppression	Amerex	A. Explanation of the Amerex Fire Suppression system B. Basic Maintenance	4hrs

LFSe Training Program Content

Name	Title	Content	Duration
Orientation Module	General Orientation - Drivers Nova Bus LFSe familiarization	A. History of Nova Bus B. Bus Operation and Operator Controls C. Tour of the Bus D. Bus special components and features	4 hrs
	General Orientation - Mechanics LFSe general procedure	A. Bus Operation and Operator Controls B. Compartment-by-Compartment Tour of the Bus C. Safety Procedures D. Towing and Recovery E. Periodic/Preventative Maintenance Procedures	4 hrs
First Responder	General Orientation - First Responder	A. Familiarisation to helectric bus B. Shutdown procedure and safety	2 hrs
Electric Propulsion	LFSe Maintenance and Familiarization	A. System Overview B. Safety C. Preventive / Corrective Maintenance D. Diagnostics & Troubleshooting E. IDS Basics	16 hrs
	IDS Troubleshooting	A. High Voltage/High Power B. Propulsion System Review C. ESS Overview, Theory of Operation D. ESS Fault Detail and Special Tools (Techtool)	8hrs
	ESS Safety Training	A. Safety Overview B. High Voltage Tools C. Safe Inspection D. Voltages and Ground Faults E. Remove and Replace procedures	8 hrs
Locking Procedures	LFSe locking procedure	A. Lockout Procedure B. Power Resupply C. Security Equipments / Tools D. High Voltage Risks	4 hrs
HVAC	HVAC Orientation	A. Heating and AC System Orientation B. Engine / Converter C. Batteries Pack 1-2 and 3-4 D. Filling Procedures E. Spheros Auxiliary Heating F. Basic System Troubleshooting	8 hrs
Doors	Electrnic Doors	A. Explanation of door system and location of all door components B. Explanation of door electrical system and interlocks C. Proper door adjustment procedures D. Basic door system troubleshooting	8 hrs
Power Steering	Electro-Hydraulic Power steering	A. Explanation of the E-Serie steering system main components. B. Adjustment, basic trouble-shooting and maintenance	4 hrs
Pneumatics	Pneumatic System Electric Air Compressor	A. Explanation of E-Serie air system and location of all air system components B. E-Serie Pneumatic Schematic C. Basic air system troubleshooting D. Air system preventative maintenance	8 hrs

LFSe+ Training Program Content

Name	Title	Content	Duration
Orientation Module	General Orientation - Drivers Nova Bus LFSe+ familiarization	A. History of Nova Bus B. Bus Operation and Operator Controls C. Tour of the Bus D. Bus special components and features	4 hrs
	General Orientation - Mechanics LFSe+ general procedure	A. Bus Operation and Operator Controls B. Compartment-by-Compartment Tour of the Bus C. Safety Procedures D. Towing and Recovery E. Periodic/Preventative Maintenance Procedures	4 hrs
First Responder	General Orientation - First Responder	A. Familiarisation to helectric bus B. Shutdown procedure and safety	4 hrs
Locking Procedures	LFSe+ Lock Out & Safety	A. Lockout Procedure B. Power Resupply C. High Voltage Interlock Loop (HVIL) D. Security Equipments / Tools E. High Voltage Risks	8 hrs
Electric Propulsion	LFSe+ System Service	A. System Overview B. Safety C. Preventive / Corrective Maintenance D. Diagnostics & Troubleshooting E. IDS Basics	16 hrs
	IDS Troubleshooting	A. High Voltage/High Power B. Propulsion System Review C. ESS Overview, Theory of Operation D. ESS Fault Detail and Special Tools (Techtool)	8hrs
	ESS Safety Training	A. Safety Overview B. High Voltage Tools C. Safe Inspection D. Voltages and Ground Faults E. Remove and Replace procedures	8 hrs
HVAC	E-HVAC Orientation	A. Heating and AC System Orientation B. Filling Procedures C. Auxiliary Heating (if equipped) D. Basic System Troubleshooting	8 hrs
Doors	Electric Doors	A. Explanation of door system and location of all door components B. Explanation of door electrical system and interlocks C. Proper door adjustment procedures D. Basic door system troubleshooting	8 hrs
Suspension, Steering, Axles	Suspension, E-Steering, Axles	A. Explanation of the suspension system B. Basic repairs to the suspension system C. Basic troubleshooting of the suspension system D. Explanation of the E-Steering system main components. E. Basic troubleshooting of the E-Steering system F. Explanation of the axles G. Draining and lubrication of the axles	4 hrs
Pneumatics	Pneumatic System E-Air Compressor	A. Explanation of E-compressor air system and location of all air system components B. E-Serie Pneumatic Schematic C. Basic air system troubleshooting D. Air system preventative maintenance	8 hrs