

ELECTRICAL/MECHANICAL TECHNICIAN



THE ROLE

An Electrical/Mechanical Technician diagnoses and repairs collision-related mechanical damage including – but not limited to – steering, suspension, air conditioning, engine, brake, restraint, and electrical systems. This individual uses measuring and alignment equipment to diagnose damage and return front and rear wheel alignments to manufacturer's specifications. Electrical diagnostics are performed using scan tools. Hand tools and power tools are used to remove or repair damaged parts and properly install new parts.



HOW TO ACHIEVE PLATINUM™ STATUS

Achievement of the Platinum designation by an Electrical/Mechanical Technician is based on successful Knowledge Area completion for each I-CAR® ProLevel® within the I-CAR Professional Development Program™. An Electrical/Mechanical Technician can initially achieve his or her Platinum designation upon completing ProLevel 1® requirements. After completing ProLevel 1 requirements, the Electrical/Mechanical Technician can maintain his or her designation by completing training requirements in the following ProLevel by his or her annual renewal date. Once ProLevel 3® training requirements have been completed, the Electrical/Mechanical Technician must complete six credit hours of ongoing role-relevant training each year by his or her annual renewal date to maintain Platinum status.



Keeping time and resources in mind, I-CAR provides a recommended training option. Recommended options for the Electrical/Mechanical Technician are listed on the back of this page. Credit hours may vary based on the courses selected. To view other training options, access the Training Planner Tool by logging in to *myI-CAR* or visit the course catalog page on the I-CAR website.

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ProLevel 1® / Recommended Courses

Knowledge Areas Required	Minimum # of Courses Required Per Knowledge Area	Minimum # of Credit Hours Required Per Knowledge Area	Live Class	Online Class	Virtual Class	Welding Training & Certification	Hands-On Skills Development	Equivalency Test Available?	
Personal Safety	1	3	WKR01	---	---	---	---	or ET-SAFET	
Electrical Circuits & Troubleshooting	3	6 6 6	ELE01 ELE02 PWR01	---	---	---	---	or ET-ECTR	
Heating & Cooling Systems	2	2 1	---	HEA02e HEA03e	---	---	---	or ET-HEACL	
Air Conditioning Systems	2	2 2	---	AIR02e AIR03e	---	---	---	or ET-ACSYS	
Lighting Systems	1	1	---	LSC04e	---	---	---	or ET-LIGHT	
Starting & Charging Systems	2	2 1	---	LSC02e LSC03e	---	---	---	or ET-START	
Fuel & Exhaust Systems	1	3	FUE01	---	---	---	---	or ET-FULEX	
Basic Brake Systems	1	3	BRA01	---	---	---	---	or ET-BBSYS	
Steering & Suspension Systems	2	3 3	STE02 STE03	---	---	---	---	or ET-STSUS	
Introduction to Passive Restraint Systems	1	6	RES01	---	---	---	---	or ET-PSRES	
Safety with Alternative Fuel Vehicles	1	3	ALT03	or ALT04e ALT05e	---	---	---	or ET-SFALT	
Drivetrains	1	6	DRT01	---	---	---	---	or ET-DTRAN	
New Technology	1	3	CYC01	or NI001E01 & VT017E01	or FOR05v	---	---	---	
Total Knowledge Areas Needed	13	Minimum Total Courses Needed	19	Minimum Credit Hours Needed		62			

ProLevel 2® / Recommended Courses

Knowledge Areas Required	Minimum # of Courses Required Per Knowledge Area	Minimum # of Credit Hours Required Per Knowledge Area	Live Class	Online Class	Virtual Class	Welding Training & Certification	Hands-On Skills Development	Equivalency Test Available?	
Diagnostic Flow Charts AND Scan Tool Operation & Clearing Codes	1	6	ELE03	---	---	---	---	---	
Advanced Passive Restraints	1	3	RES02	---	---	---	---	---	
Advanced Braking Systems	2	7	ABR01	and ESC01	---	---	---	---	
Steering & Suspension Diagnostics	1	6	STE04	---	---	---	---	---	
Full-Frame Replacement	1	3	SPS06	---	---	---	---	---	
New Technology	1	3	NEW16	or NI001E01 & VT017E01	or FOR05v	---	---	---	
Total Knowledge Areas Needed	7	Minimum Total Courses Needed	7	Minimum Credit Hours Needed		28			

ProLevel 3® / Recommended Courses

Knowledge Areas Required	Minimum # of Courses Required Per Knowledge Area	Minimum # of Credit Hours Required Per Knowledge Area	Live Class	Online Class	Virtual Class	Welding Training & Certification	Hands-On Skills Development	Equivalency Test Available?	
Computer-Controlled Electronic Systems	1	3	DAM15	---	---	---	---	---	
New Technology	1	3	DAM07	or NI001E01 & VT017E01	or FOR05v	---	---	---	
Total Knowledge Areas Needed	2	Minimum Total Courses Needed	2	Minimum Credit Hours Needed		6			