



## AUTONOMOUS VEHICLE REGULATIONS

Autonomous vehicles are on the fast track to being a real option for the consumer in the near future. Estimates are that autonomous vehicles will be on the road anywhere from 2020 to 2035. Before they are available to the average driver, they must be thoroughly tested. The following states have developed regulations for the testing of autonomous vehicles on their roads. Any section left blank indicates that the particular state did not address that particular definition or develop similar requirements.

STATE	CALIFORNIA
Statute	Proposed SB 1298; 16.6 38750
Definition of "artificial intelligence"	
Definition of "autonomous vehicle"	A vehicle equipped with autonomous technology that has been integrated into that vehicle.
Definition of "autonomous technology"	Technology that has the capability to drive a vehicle without the active physical control or monitoring by a human operator.
Definition of "driver"	Operator - person seated in the driver's seat, or if no person in the driver's seat, person who causes the autonomous technology to engage
Definition of "manufacturer"	The person that originally manufactures a vehicle and equips autonomous technology on the originally completed vehicle or modifies an already manufactured vehicle to convert to autonomous technology.
Regulations	Regulations for autonomous vehicles must be in place no later than January 1, 2015, and set forth requirements for insurance, bonding, testing, equipment, performance standards, and hold public hearings on the adoption of regulations of AVs without a driver inside the vehicle.
Testing requirements	Driver must be in the driver's seat, monitoring safe operation of the vehicle, and be able to take immediate manual control in event of autonomous technology failure or other emergency.
Insurance requirements	Must have insurance, surety bond, or self insurance of \$5,000,000 and shall provide proof of such to the department.
Vehicle requirements	Vehicle must have mechanism to engage/disengage autonomous technology that is easily accessible to operator; visual indicator inside vehicle that indicates AV technology is engaged; safety system to alert when AV failure is detected—system will require operator to take control or vehicle shall come to complete stop. Vehicle must meet all federal safety standards for that model year.

Reporting requirements	Vehicle must store sensor data for at least 30 seconds before collision occurs.
Driver's license endorsement required	Manufacturer shall provide purchaser with written disclosure of information collected by technology equipped on the vehicle.
Bond requirements	Must have insurance, surety bond, or self insurance of \$5,000,000 and shall provide proof of such to the department.

STATE	DISTRICT OF COLUMBIA
Statute	DC ST §§ 50-2351 through 2354
Definition of "artificial intelligence"	
Definition of "autonomous vehicle"	A vehicle capable of navigating District roadways and interpreting traffic-control devices without a driver actively operating any of the vehicle's control systems. Autonomous vehicle does not include semi-autonomous technology such as adaptive cruise control, lane departure warning, or other such systems.
Definition of "autonomous technology"	
Definition of "driver"	A human operator of a motor vehicle with a valid driver's license.
Definition of "manufacturer"	
Regulations	Original manufacturer of a vehicle converted by a third party into an AV shall not be liable in, and have defense to and be dismissed from any legal action brought against original manufacturer unless defect was in vehicle as it was originally manufactured. Conversion is limited to model years 2009 or later or vehicles built within four years of conversion, whichever is later.
Testing requirements	
Insurance requirements	
Vehicle requirements	An AV may operate on a public roadway as long as vehicle has a manual override that allows a driver to assume control at any time; has a driver seated in the control seat of the vehicle prepared to take control at any time; and is capable of operating with the District's applicable traffic laws and motor vehicle laws and traffic control devices.
Reporting requirements	
Driver's license endorsement required	
Bond requirements	

STATE	FLORIDA
Statute	F.S.A. §§ 316.85; 316.86
Definition of "artificial intelligence"	
Definition of "autonomous vehicle"	
Definition of "autonomous technology"	
Definition of "driver"	Operator - person who causes autonomous technology to engage, where or not a person is physically present in the vehicle while the vehicle is operating in autonomous mode.
Definition of "manufacturer"	
Regulations	Original manufacturer of a vehicle converted by a third party into an AV shall not be liable in, and have defense to and be dismissed from any legal action brought against original manufacturer unless defect was in vehicle as it was originally manufactured.
Testing requirements	A human operator must be in vehicle and have ability to monitor vehicle's performance and intervene if necessary unless vehicle is on a closed course.
Insurance requirements	Must have insurance, surety bond, or self insurance of \$5,000,000 and shall provide proof of such to the department.
Vehicle requirements	
Reporting requirements	
Driver's license endorsement required	Person with valid drivers license may operate autonomous vehicle in autonomous mode.
Bond requirements	Must have insurance, surety bond, or self insurance of \$5,000,000 and shall provide proof of such to the department.

STATE	NEVADA
Statute	N.R.S. 482A.020, 030, 100, 200; 483.063
Definition of "artificial intelligence"	The use of computers and related equipment to enable a machine to duplicate or mimic the behavior of human beings.
Definition of "autonomous vehicle"	A motor vehicle that uses artificial intelligence, sensors and global positioning system coordinates to drive itself without the active intervention of a human operator.
Definition of "autonomous technology"	
Definition of "driver"	A person who is in actual physical control of a vehicle upon a highway.
Definition of "manufacturer"	The original equipment manufacturer means the manufacturer of a new vehicle or engine, or relating to the vehicle or engine in its original, certified configuration.
Regulations	Regulations must be adopted and must set forth requirements that an autonomous vehicle must meet before being operated on a highway; set forth requirements for insurance required to test/operate an autonomous vehicle on a highway; establish minimum safety standards for said vehicles; provide for testing and restrict testing to specified areas; set forth other requirements as deemed necessary.
Testing requirements	Two persons must be in the vehicle, one designated as operator and in the driver's seat. Each must have a valid driver's license and be trained in the operation of the vehicle and its limitations.
Insurance requirements	Certificate that meets or exceeds minimum liability requirements (15/30/10) but is not an operator's policy in N.R.S. 485.186.
Vehicle requirements	Vehicle must have 10,000 miles of prior autonomous operation. Must show that vehicle can handle traffic control devices, pedestrians and objects, speed variations, and environmental changes rain, snow, etc.).
Reporting requirements	If there is an accident or operator is issued a citation, a report must be submitted to the department within ten days.
Driver's license endorsement required	Endorsement must recognize that person is not required to actively drive autonomous vehicle.
Bond requirements	Bond or cash deposit of \$1,000,000 required for 1-5 vehicles; \$2,000,000 for 6-10 vehicles, \$3,000,000 for more than 10 vehicles.

STATE	SOUTH CAROLINA
Statute	Chapter 2 title 56-2-.3110 through 3200
Definition of "artificial intelligence"	
Definition of "autonomous vehicle"	A motor vehicle that that is equipped with autonomous technology that has been integrated into the motor vehicle. Does not include vehicles with one or more collision avoidance systems including blind spot assistance, adaptive cruise control, lane departure warning, and others.
Definition of "autonomous technology"	Technology with the capability to drive a vehicle without the active physical control or monitoring by a human operator.
Definition of "driver"	'Operator' of an autonomous vehicle means the person who is seated in the driver's seat, or if there is no person in the driver's seat, causes the autonomous technology to engage.
Definition of "manufacturer"	The person that originally manufactures a vehicle and equips autonomous technology on the originally completed vehicle or, in the case of a vehicle not originally equipped with autonomous technology by the vehicle manufacturer, the person that modifies an existing vehicle by installing autonomous technology to convert it to an autonomous vehicle.
Regulations	Regulations for insurance and submission and approval of an application to operate an AV must be adopted by January 1, 2015. Regulations are to include testing, equipment, and performance standards. Includes regulations for new licenses for operators of AVs and revocation, suspension or denial of a license or approval of license.
Testing requirements	Operator must have valid license and be designated by manufacturer; driver must be in driver's seat and able to take control immediately in event of emergency; application certifying that vehicle has: mechanism to engage/disengage technology easily accessible to operator, visual indicator inside cabin indicates when technology is in use, has safety alert system that will alert driver to take over or if driver cannot take over vehicle will come to complete stop, and certifies that insurance or bond will be maintained as required.
Insurance requirements	\$5 million insurance or surety bond required.
Vehicle requirements	Operator must be able to take control in multiple ways via brake, accelerator pedal, steering wheel and alert operator that technology has been disabled; technology must meet federal motor vehicle safety standards and all other safety standards, must not make any required safety standards inoperative, must have data recording capabilities and data will be stored for 3 years.
Reporting requirements	Data must be recorded for at least 30 seconds before a collision between the AV and any other vehicle, object, or person, must be stored in a read only format and stored for 3 years.
Driver's license endorsement required	
Bond requirements	\$5 million or insurance policy for same amount.

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