



SURFACE VEHICLE RECOMMENDED PRACTICE

J3300™/3

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Automated Driving Fallback Test Driver Skill Certification

RATIONALE

This SAE Recommended Practice describes automated driving (AD) fallback test driver skill levels for operating vehicles as they relate to operating vehicles with automated driving features, primarily for purposes of vehicle testing and evaluation. This document, in combination with SAE J3300, describes specific criteria for establishing AD fallback test driver skills, verification methods, and certification procedures for the skill levels. This document may also be used as a basis for developing an AD fallback test driver training program for drivers seeking certification. This document reflects the current industry practice through ongoing cooperation of OEM, supplier, independent test facilities, and other driving-related organizations. It is anticipated that this SAE Recommended Practice will evolve into a broadly accepted SAE Standard and will promote harmonization of driving skill levels across the industry.

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1. SCOPE

This document is intended to establish a procedure to certify AD fallback test driver skill levels as an endorsement to SAE J3300 foundational level certification. The SAE J3300/3 endorsement can be used by the individual driver to qualify their skills as a test driver of vehicles with automated driving features. The SAE J3300/3 endorsement levels may also be used by test facilities or other organizations when seeking test or professional drivers with these skills.

This document provides directions for obtaining the endorsement, including associated AD fallback test driving skill examination requirements, through SAE J3300-certified Examiners (refer to SAE J3300 for definition). Endorsement registration and associated records are administered through Probitas Authentication®. Probitas Authentication® is the current Independent Program Administrator for the SAE J3300 series.

This document is a supplement to SAE J3300, providing information specific to the AD fallback test driver skill endorsement and clarifying the application of the rules set forth in SAE J3300 to the AD fallback test driver endorsement. While the references, definitions, rules, and guidelines presented in SAE J3300 Sections 1 through 5 apply to the AD fallback test driver endorsement, they are not repeated in this document.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 1-877-606-7323 (U.S. and Canada only) or 1-724-776-4970 (outside U.S. and Canada), www.sae.org.

SAE J3016_202104 Taxonomy and Definitions for Terms Related to Driving Automation Systems for On-Road Motor Vehicles

SAE J3018_202012 Safety-Relevant Guidance for On-Road Testing of Prototype Automated Driving System (ADS)-Operated Vehicles

SAE J3206 Taxonomy and Definition of Safety Principles for Automated Driving System (ADS)

SAE J3247 Automated Driving System Test Facility Safety Practices

SAE J3300 Driving Level Skill Certification

AVSC00001201911 AVSC Best Practice for In-Vehicle Fallback Test Driver Selection, Training, and Oversight Procedures for Automated Vehicles Under Test

2.1.2 Other Publications

ISO 26262:2018 Road Vehicles - Functional Safety - Part 1: Vocabulary

Thorn, E., Kimmel, S., and Chaka, M. (2018). *A framework for automated driving system testable cases and scenarios* (Report no. DOT HS 812 623). National Highway Traffic Safety Administration.

https://www.nhtsa.gov/sites/nhtsa.gov/files/documents/13882-automateddrivingsystems_092618_v1a_tag.pdf

2.2 Related Publications

The following publications are provided for information purposes only and are not a required part of this SAE Recommended Practice.

2.2.1 BSI Publications

Copies of these documents are available online at www.bsigroup.com.

PAS 1884:2021 Safety operators in automated vehicle testing and trialing – Guide

3. DEFINITIONS

3.1 ENDORSEMENT (SAE J3300)

Driving skill certification affirming that the named individual has demonstrated the skills necessary to pass the requirements of SAE J3300 for a specialized discipline, beyond the scope of foundational driving levels (DL).

3.2 FALLBACK TEST DRIVER (SAE J3018_202012)

A person specially trained and skilled in supervising the performance of prototype ADS-operated vehicles in on-road traffic for testing purposes.

3.2.1 IN-VEHICLE FALLBACK TEST DRIVER (IFTD) (SAE J3018_202012)

A fallback test driver of a prototype ADS-operated vehicle who is capable of appropriately responding to unexpected ADS and vehicle behaviors in a variety of operating situations, including hazardous ones, by exercising in-vehicle braking, accelerating, steering, and transmission position selection input devices.

NOTE: An IFTD becomes a conventional (test) driver after they assume performance of the complete dynamic driving task (DDT, as per SAE J3016).

3.2.2 REMOTE FALLBACK TEST DRIVER (RFTD) (SAE J3018_202012)

A fallback test driver of a prototype ADS-operated vehicle in driverless operation, who, from a location remote to the vehicle, is capable of appropriately responding to unexpected ADS and vehicle behaviors in a variety of operating situations, including hazardous ones, using wireless means.

NOTE: “Capable of appropriately responding,” in this context, means having the technical means to operate the vehicle from a remote location.

Refer to SAE J3018_202012 for further details.

3.3 HAZARDOUS EVENT (ISO 26262:2018)

Combination of a hazard and an operational situation.

3.4 HAZARD (ISO 26262:2018)

Potential source of harm caused by malfunctioning behaviour of the item.

4. ENDORSEMENT DESCRIPTION

As listed in Section 2, there are available resources to understand industry expectations of ADS testing. In particular, SAE J3018 can be a valuable resource to prepare for obtaining an SAE J3300/3 endorsement, as it may be considered SAE's primary document for describing the functions and expectations of an ADS test driver. Other reference documents may provide additional understanding of ADS testing.

The endorsements apply to individuals, not to companies or organizations, and consist of three types: AD2; AD3.1; and AD3.2. Each endorsement consists of three aspects in the following order: holding a valid SAE J3300 prerequisite driving skill certification (refer to SAE J3300 for details); passing an SAE J3300/3 written test; and passing an SAE J3300/3 attentiveness test. This document addresses the written test and attentiveness test. The written test and attentiveness test are intended to be conducted at accredited facilities (may or may not be the same facilities) and proctored by a certified examiner. It is recommended that the written test and attentiveness test be taken as close together in time as possible.

The certification process described in this document is not intended to preclude the use of any potential or additional future certification criteria, such as in-vehicle evaluation, which may be useful for certain test-driving regimes.

4.1 AD2 Endorsement

The AD2 endorsement is limited to testing in secured test facility environments representing public roads up to a maximum speed of 50 mph (80 kph). The intent is to make available an endorsement for people who may not have extensive experience in ADS testing. The controlled nature of a test facility allows a fallback test driver to conduct testing in an environment with limited hazardous conditions.

To obtain an AD2 endorsement, an applicant must achieve the following:

- Acquire and maintain an SAE J3300 Driving Level 2 (DL2) certification
- Pass an SAE J3300/3 AD written test
- Pass an SAE J3300/3 AD2 attentiveness test

4.2 AD3.1 Endorsement

The AD3.1 endorsement builds on the AD2 endorsement. Relative to AD2, the AD3.1 driving environment includes (1) all road environments up to a maximum speed of 85 mph (140 kph) at test facilities and (2) testing on public roads excluding limited-access freeways (motorways). To obtain an AD3.1 endorsement, an applicant must achieve the following:

- Acquire and maintain an SAE J3300 Driving Level 3 (DL3) certification
- Pass an SAE J3300/3 AD written test, if an AD2 endorsement has not been previously obtained
- Pass an SAE J3300/3 AD3.1 attentiveness test

4.3 AD3.2 Endorsement

The AD3.2 endorsement builds on the AD3.1 endorsement. Relative to AD3.1, the AD3.2 driving environment includes all road environments at both test facilities and public roads. Therefore, it may include practically any public road configuration that could be encountered in the real-world. To obtain an AD3.2 endorsement, an applicant must achieve the following:

- Acquire and maintain an SAE J3300 DL3 certification
- Pass an SAE J3300/3 AD written test, if an AD2 or AD3.1 endorsement has not been previously obtained
- Pass an SAE J3300/3 AD3.2 attentiveness test

4.4 Recertification and Decertification

Each SAE J3300/3 endorsement is valid for a 3-year period. This differs from the standard validity period for other SAE J3300 endorsements where Levels 1 and 2 are valid for 10 years and Levels 3 and 4 are valid for 5 years, assuming the Annual Maintenance requirements are met every year. An applicant is able to continue having an endorsement by successfully repeating the process shortly prior to the expiration of an existing endorsement. Due to rapidly evolving driving automation technology, the current validity period for SAE J3300/3 differs from the other endorsements which are described in SAE J3300. Certifications may be revoked (decertification) for specific cause(s) or for failure to complete annual maintenance requirements. Annual maintenance, annual declaration, and decertification requirements for SAE J3300/3 are the same as the other endorsements which are described in SAE J3300.

5. WRITTEN EXAMINATION

5.1 Overview

The written examination is conducted at an authorized facility in the presence of a proctor. The examination consists of a series of multiple choice questions. A minimum score must be achieved to pass the examination and the required minimum score will be available to the applicant prior to taking the examination. The multiple choice questions will address various topics such as ADS features and functionality, performing fallback, awareness and attentiveness, and testing protocol. The documents listed in section 2 can be studied to prepare for the examination.

5.2 Multiple Choice Questions and Scoring Method

Only multiple choice questions appear in the examination. For each question, the applicant will be asked to select all correct responses. Depending on the question, the number of correct responses could be one or more. The score for each question will be based on the combined selection of correct and incorrect responses.

5.3 Multiple Versions of Test

To maintain integrity of the evaluation process, multiple versions of the examination will be used. The multiple versions may be created by changing the questions, changing the order of questions, changing the order of responses within a given question, and changing the number of correct/incorrect responses within a given question. All test versions will be provided to respective examiners.

6. ATTENTIVENESS EXAMINATION

6.1 Overview

Test driving manually operated vehicles has been used to assess performance aspects such as durability and ride comfort. Manual operation involves a human constantly controlling a vehicle, being aware of surrounding situations, and being prepared to take action to avoid hazardous events. Manual vehicle control skills can be evaluated through the SAE J3300 Driving Level Certification process. Acquiring an SAE J3300 certification is a prerequisite to acquiring an SAE J3300/3 endorsement.

Testing a vehicle operated by an ADS does not require constant human control while the ADS is performing the DDT. However, a person testing such a vehicle should be prepared to assume vehicle control in case the ADS experiences an issue preventing it from properly operating the vehicle, i.e., performing the DDT. Therefore, the person shall have attentiveness skills in addition to manual vehicle control skills.

The attentiveness examination is conducted through a simulation. The benefits of using simulation include:

- Elimination of risk compared to being evaluated in a real-world environment
- Consistency in setup across different examination locations
- Flexibility in introducing various simulated hazardous situations