

INTERNATIONAL  
STANDARD

ISO  
26262-4

Second edition  
2018-12

---

---

---

**Road vehicles — Functional safety —  
Part 4:  
Product development at the system  
level**

*Véhicules routiers — Sécurité fonctionnelle —  
Partie 4: Développement du produit au niveau du système*

---

---

---

Reference number  
ISO 26262-4:2018(E)



© ISO 2018



## COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Fax: +41 22 749 09 47  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

	Page
<b>Foreword</b>	<b>v</b>
<b>Introduction</b>	<b>vii</b>
<b>1 Scope</b>	<b>1</b>
<b>2 Normative references</b>	<b>2</b>
<b>3 Terms and definitions</b>	<b>2</b>
<b>4 Requirements for compliance</b>	<b>2</b>
4.1 Purpose	2
4.2 General requirements	2
4.3 Interpretations of tables	3
4.4 ASIL-dependent requirements and recommendations	3
4.5 Adaptation for motorcycles	4
4.6 Adaptation for trucks, buses, trailers and semi-trailers	4
<b>5 General topics for the product development at the system level</b>	<b>4</b>
5.1 Objectives	4
5.2 General	4
<b>6 Technical safety concept</b>	<b>5</b>
6.1 Objectives	5
6.2 General	6
6.3 Inputs to this clause	6
6.3.1 Prerequisites	6
6.3.2 Further supporting information	6
6.4 Requirements and recommendations	6
6.4.1 Specification of the technical safety requirements	6
6.4.2 Safety mechanisms	7
6.4.3 System architectural design specification and technical safety concept	9
6.4.4 Safety Analyses and avoidance of systematic failures	9
6.4.5 Measures for control of random hardware failures during operation	11
6.4.6 Allocation to hardware and software	11
6.4.7 Hardware-software interface (HSI) specification	12
6.4.8 Production, operation, service and decommissioning	12
6.4.9 Verification	13
6.5 Work products	14
<b>7 System and item integration and testing</b>	<b>14</b>
7.1 Objectives	14
7.2 General	15
7.3 Inputs to this clause	15
7.3.1 Prerequisites	15
7.3.2 Further supporting information	15
7.4 Requirements and recommendations	15
7.4.1 Specification of integration and test strategy	15
7.4.2 Hardware-software integration and testing	17
7.4.3 System integration and testing	19
7.4.4 Vehicle integration and testing	21
7.5 Work products	24
<b>8 Safety validation</b>	<b>24</b>
8.1 Objectives	24
8.2 General	24
8.3 Inputs to this clause	25
8.3.1 Prerequisites	25
8.3.2 Further supporting information	25
8.4 Requirements and recommendations	25

**如需获取标准全文请联系以下：**

通讯地址：广州市番禺区石碁镇创运路 8号

联系电话： 18680502391

E-mail： [yuanyf@grgtest.com](mailto:yuanyf@grgtest.com)