

This is a preview of "ISO 18490:2015". [Click here to purchase the full version from the ANSI store.](#)

First edition
2015-06-01

Non-destructive testing — Evaluation of vision acuity of NDT personnel

Essais non destructifs — Évaluation de l'acuité visuelle du personnel END



Reference number
ISO 18490:2015(E)

© ISO 2015

This is a preview of "ISO 18490:2015". [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, 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
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

This is a preview of "ISO 18490:2015". [Click here to purchase the full version from the ANSI store.](#)

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Chart print quality	1
5 Health and safety	2
6 Personnel administering the test	2
7 Test charts	2
8 Test procedure	2
8.1 General.....	2
8.2 Illumination level.....	2
8.3 Eye to chart distance.....	3
8.4 Eyewear.....	3
8.5 Candidate's responses.....	3
8.6 The test.....	3
9 Acceptance level	3
Annex A (normative) Format and size of the optotypes	4
Annex B (normative) Spacing of the optotypes	7
Annex C (informative) Example test chart (Not to scale)	8

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: [Foreword — Supplementary information](#).

ISO 18490 was prepared by European Committee for Standardization (CEN) in collaboration with ISO/TC 135, *Non-destructive testing, SC 7, Personnel Qualification*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This is a preview of "ISO 18490:2015". [Click here to purchase the full version from the ANSI store.](#)

Introduction

Standards for NDT Personnel qualification and certification require that the visual acuity of inspection personnel is verified as being appropriate to their function. By meeting the near vision acuity level defined in this International Standard, such requirements of ISO 9712 and EN 4179 will be met. The purpose of this International Standard is to provide a detailed, standardised procedure for the evaluation of near vision acuity for such personnel under defined lighting conditions.

The test is not medical in nature and is intended to objectively ensure adequate near vision perception without reliance on reading ability or text identification. Because it is extremely difficult to demonstrate any equivalency in near vision tests, this International Standard has been prepared in order that an international system may be used without any need to demonstrate equivalence and is the recommended method of determining near vision acuity for NDT Personnel.