PISA 2022 Technical Standards and guidelines

Purpose of document

1. The purpose of this document is to list the set of standards upon which the PISA 2022 data collection activities will be based, as was the case for previous PISA. In following the procedures specified in the standards, the partners involved in the data collection activities contribute to creating an international dataset of a quality that allows for valid cross-national inferences to be made.

2. The standards for data collection and submission were developed with three major, and inter-related, goals in mind: consistency, precision and generalisability of the data. Furthermore, the standards serve to ensure a timely progression of the project in general.

   - **Consistency**: Data should be collected in an equivalent fashion in all countries, using equivalent test materials that were translated and/or adapted as appropriate. Comparable samples of each country’s student population should perform under test conditions that are as similar as possible. Given consistent data collection (and sufficiently high response rates), test results are likely to be comparable across regions and countries. The test results in different countries will reflect differences in the performance of the students measured, and will not be caused by factors which are un-related to performance.

   - **Precision**: Data collection and submission practices should leave as little room as possible for spurious variation or error. This holds for both systematic and random error sources, e.g. when the testing environment differs from one group of students to another, or when data entry procedures are questionable. An increase in precision relates directly to the quality of results one can expect: The more precise the data, the more powerful the (statistical) analyses, and the more trustworthy the results to be obtained.

   - **Generalisability**: Data are collected from specific individuals, in a specific situation, and at a certain point in time. Individuals to be tested should be selected, and test materials and tasks etc. be developed in a way that will ensure that the conclusions reached from a given set of data do not simply reflect the setting in which the data were collected but hold for a variety of settings and are valid in the target population at large. Thus, collecting data from a representative sample of the population, for example, will be essential, but not sufficient, for the results to accurately reflect the level of literacy of fifteen-year-old students in a country.

   - **Timeliness**: Consistency, precision and generalisability of the data can be obtained in a variety of ways. However, the tight timelines and budgets in PISA, as well as the sheer number of participating countries, preclude the option of developing and monitoring local solutions to be harmonised at a later stage in the project. Therefore, the standards specify one clear-cut path along which data collection, coding and data submission should progress.

3. This document strives to establish a collective agreement of mutual accountability among countries, and of the international contractor towards the countries. This document details each standard, and the quality assurance and quality management plan to demonstrate that the standard has been met. While the terms quality assurance and quality
control are sometimes used interchangeably, they relate to different aspects of quality. Quality assurance is most often associated with the processes and procedures that are put in place to make sure the survey is likely to meet its intended goals. Quality control, on the other hand, relates to the set of judgements that are made with regard to the suitability of the quality assurance procedures and the suitability of the survey results in terms of their intended uses or applications.

4. Where standards have been fully met and data quality of the final databases judged as appropriate, the international contractors will recommend to the OECD Secretariat that the data be included in the PISA 2022 database. Where standards have not been fully met or data quality has been questioned, an adjudication process will determine the extent to which the quality and international comparability of the data have been affected or whether additional analysis or evidence are necessary. The result of data adjudication will determine whether the data will be recommended for inclusion in the PISA 2022 dataset.

5. In principle each dataset should be evaluated against all standards jointly. Also, it is possible that countries’ proposed plans for implementation are not, for various and often unforeseen circumstances, actually implemented (e.g. national teacher strike affecting not only response rates but also testing conditions; unforeseen National Centre budget cuts which impact on testing, printing and data management quality). Therefore, the final evaluation of standards needs to be made with respect to the data as submitted since this is the definitive indication of what may appear in the released international dataset.

6. If any issues with attaining standards or data quality are identified, the International Survey Director initiates communication with the National Centre as soon as possible to give advice on resolving problems.

7. The PISA standards serve as benchmarks of best practice. As such, the standards are designed to assist National Centres and the international contractors by explicitly indicating the expectations of data quality and study implementation endorsed by the PISA Governing Board, and by clarifying the timelines of the activities involved. The standards formulate levels of attainment, while timelines and feedback schedules of both the participating countries and the contractors are defined in the PISA operations manuals.

8. As specified in the contracts for the implementation of the eighth cycle of the OECD Programme for International Student Assessment, the international contractors take responsibility for developing and implementing procedures for assuring data quality. Therefore, the international contractors mediate, and monitor the countries’ activities specified in this document, while the adherence to the standards by all international contractors is monitored by the participating countries via the OECD Secretariat. The international contractors must communicate timelines and tasks well in advance to National Centres and give reasonable deadlines for National Centres to respond to tasks.

9. Where the technical standards stipulate that variations from the standards require agreement between participating countries and the international contractors, National Project Managers are asked to initiate the process of negotiation and to undertake everything possible to facilitate an agreement. Where agreement between National Project Managers and the international contractors cannot be reached, the OECD will adjudicate and resolve the issues. The OECD will also adjudicate any issues resulting from non-compliance with the technical standards that cannot be resolved between participating countries and the contractors.

10. There are three types of standards in this document; each with a specific purpose:
• Data Standards refer to aspects of study implementation that directly concern the data quality and its assurance.

• These standards have been reviewed by the Technical Advisory Group, and their comments and suggestions have been taken into careful consideration in finalising the standards.

• Management Standards are in place to ensure that all PISA operational objectives are met in a timely and coordinated manner.

• National Involvement Standards reflect the expectations set out in the PISA 2022 Terms of Reference that the content of the PISA tests is established in consultation with national representatives with international content expertise. In particular, these standards ensure that the internationally developed instruments are widely examined for cross-national, cross-cultural and cross-linguistic validity and that the interests and involvement of national stakeholders are considered throughout the study.

Format of the document

11. The standards are grouped into sections that relate to specific tasks in the PISA data collection process. For every section, a rationale is given explaining why standard setting is necessary. The standards in each section consist of three distinct elements. First, there are the Standards themselves that are numbered and are shown in shaded boxes. Second, there are Notes that provide additional information on the standards directly. The notes are listed after the standards in each section. Third, there are the quality control measures that will be used to assess if a standard has been met or not. These are listed at the end of each section. In addition, the standards contain words that have a defined meaning in the context of the standards. These words are shown in italics throughout the document and are clarified in the Definitions section at the end of the document, where the terms are listed alphabetically.

Scope

12. The standards in this document apply to data from adjudicated entities that include both PISA participants and additional adjudicated entities. The PISA Governing Board will approve the list of adjudicated entities to be included in a PISA cycle.

Data standards

1.1.1. Target population and sampling

13. Rationale: Meeting the standards specified in this section will ensure that in all countries, the students tested come from the same target population in every country, and are in a nearly equivalent age range. Therefore, the results obtained will not be confounded by potential age effects. Furthermore, to be able to draw conclusions that are valid for the entire population of fifteen-year-old students, a representative sample shall be selected for participation in the test. The size of this representative sample should not be too small, in order to achieve a certain precision of measurement in all countries. For this reason, minimum numbers of participating students and schools are specified. In PISA 2022, a teacher questionnaire will be offered as an international option. The response-rate standard for teachers specified in this section applies only to countries that
participate in this international option, and will ensure that the analysis and reporting goals for this option can be met.

14. The procedures for drawing the samples used in the study are crucial to data quality. The goal of the project is to collect data that are representative for the population at large, in such a way that the results are comparable, reliable and valid. To reach these goals the sampling procedures must follow established scientific principles for drawing samples from finite populations.

**Standard 1.1** The PISA Desired Target Population is agreed upon through negotiation between the National Project Manager and the international contractors within the constraints imposed by the definition of the PISA Target Population. The Target Population for PISA starts with students attending all educational institutions located within the country, and in grade 7 or higher. The “standard” PISA target population is further refined to its age basis: students between 15 years and 3 (completed) months and 16 years and 2 (completed) months at the beginning of the testing period.

**Standard 1.2** Unless otherwise agreed upon only PISA-eligible students participate in the test.

**Standard 1.3** Unless otherwise agreed upon, the testing period:
- is no longer than eight consecutive weeks in duration for computer-based testing participants,
- is no longer than six consecutive weeks in duration for paper-based testing participants,
- does not coincide with the first six weeks of the academic year, and
- begins exactly three years from the beginning of the testing period in the previous PISA cycle.

**Standard 1.4** Schools are sampled using agreed upon, established and professionally recognised principles of scientific sampling.

**Standard 1.5** Student lists should not be collected more than 8 weeks prior to the start of data collection, unless otherwise agreed upon.

**Standard 1.6** Students are sampled using agreed upon, established and professionally recognised principles of scientific sampling and in a way that represents the full population of PISA-Eligible students.

**Standard 1.7** The PISA Defined Target Population covers 95% or more of the PISA Desired Target Population. That is, school-level exclusions and within-school exclusions combined do not exceed 5%.

**Standard 1.8** The student sample size for the computer-based mode is a minimum of 6300 assessed students, and 2100 for additional adjudicated entities, or the entire PISA Defined Target Population where the PISA Defined Target Population is below 6300 and 2100 respectively. The student sample size of assessed students for the paper-based mode is a minimum of 5250.

**Standard 1.9** The school sample size needs to result in a minimum of 150 participating schools, and 50 participating schools for additional adjudicated entities, or all schools that have students in the PISA Defined Target Population where the number of schools
with students in the **PISA Defined Target Population** is below 150 and 50 respectively. Countries not having at least 150 schools, but which have more students than the required minimum student sample size, can be permitted, if agreed upon, to take a smaller sample of schools while still ensuring enough sampled PISA students overall.

**Standard 1.10** The minimum acceptable sample size in each school is 25 students per school (all students in the case of school with fewer than 25 eligible students enrolled).

**Standard 1.11** The final weighted school response rate is at least 85% of sampled eligible and non-excluded schools. If a response rate is below 85% then an acceptable response rate can still be achieved through agreed upon use of replacement schools.

**Standard 1.12** The final weighted student response rate is at least 80% of all sampled students across responding schools.

**Standard 1.13** The final weighted teacher response rate is at least 75% of all sampled teachers across responding schools.

**Standard 1.14** The final weighted sampling unit response rate for any optional cognitive assessment is at least 80% of all sampled students across responding schools.

**Standard 1.15** Analyses based on questionnaire data that do not link to a weighted 75% of the target population shall be flagged or replaced by a missing code in OECD reports.

**Standard 1.16** Unless otherwise agreed upon, the international contractors will draw the school sample for the Main Survey.

**Standard 1.17** Unless otherwise agreed upon, the National Centre will use the sampling contractor’s software to draw the student sample, using the list of eligible students provided for each school.

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**Note 1.1** Standards 1.1 through 1.17 apply to the Main Survey but not the Field Trial.

**Note 1.2** Data from schools where the (unweighted) student response rate is greater than 33% will be included in the PISA dataset and the school counted as a respondent. Otherwise, the school will be a non-respondent, and no student, school or teacher data will be retained.

**Note 1.3** A PISA-eligible student recorded in the database as not doing the minimum required number of questions of the main cognitive part of the PISA assessment will be counted as a nonparticipant.

**Note 1.4** Acceptable response rates obtained through the use of replacement schools are described in detail in the School Sampling Preparation Manual.

**Note 1.5** Guidelines for acceptable exclusions that do not affect standard adherence, are as follows:

- School level exclusions that are exclusions due to geographical inaccessibility, extremely small school size, administration of PISA would be not feasible within the school, and other agreed upon reasons and whose students total to less than 0.5% of the PISA Desired Target Population,
- School level exclusions that are due to a school containing only students that would be within-school exclusions and that total to less than 2.0% of the PISA Desired Target Population, and
- Within-school exclusions that total to less than 2.5% of the PISA Desired Target Population – these exclusions could include, for example, students not able to do the test because of a functional disability.

**Note 1.6** Principles of scientific sampling include, but are not limited to:

- The identification of appropriate stratification variables to reduce sampling variance and facilitate the computation of non-response adjustments.
- The incorporation of an agreed target cluster size of PISA-eligible students from each sampled school: The recommended target cluster size is 42 and 25 is the minimum. In determining the target cluster size for a given country, or stratum within a country, it is necessary to ensure that the minimum sample size requirements for both schools and students will be met.
Note 1.7 Any exceptional costs associated with verifying a school sample taken by the National Centre, or a student sample selected other than by using the sampling contractor’s software will be borne by the National Centre.

Note 1.8 Agreement with the international contractor on alternative methods of drawing samples will be subject to the principle that the sampling methods used are scientifically valid and consistent with PISA’s documented sampling methods. Where a PISA participating country chooses to draw the school sample, the National Centre provides the international contractor with the data and documentation required for it to verify the correctness of the sampling procedures applied. Where a PISA participating country chooses not to use the sampling contractor’s software to draw the student sample, the National Centre provides the international contractor with the data and documentation required for it to verify the correctness of the sampling procedures applied.

Note 1.9 Teachers recorded in the database as completing at least one valid response will be counted as respondents.

15. Quality assurance
   - Sampling procedures as specified in the PISA operations manuals
   - School sample drawn by the international contractors (or if drawn by the National Centre, then verified by the international contractors)
   - Student sample drawn through the sampling contractor’s software (or if drawn by other means, then verified by the international contractors)
   - Sampling forms submitted to the international contractors
   - Main Survey Review Form

1.1.2. Language of testing

16. Rationale: Using the language of instruction will ensure analogous testing conditions for all students within a country, thereby strengthening the consistency of the data. It is assumed that the students tested have reached a level of understanding in the language of instruction that is sufficient to be able to work on the PISA test without encountering linguistic problems (see also the criteria for excluding students from the potential assessment due to insufficient experience in the language of assessment: within-school exclusions). Thus, the level of literacy in reading, mathematics and science can be assessed without interference due to a critical variation in language proficiency.

Standard 2.1 The PISA test is administered to a student in a language of instruction provided by the sampled school to that sampled student in the major domain (Mathematics) of the test.

If the language of instruction in the major domain is not well defined across the set of sampled students then, if agreed upon, a choice of language can be provided, with the decision being made at the student, school, or National Centre level. Agreement with the international contractor will be subject to the principle that the language options provided should be languages that are common in the community and are common languages of instruction in schools in that adjudicated entity.

If the language of instruction differs across domains then, if agreed upon, students may be tested using assessment instruments in more than one language on the condition that the test language of each domain matches the language of instruction for that domain. Information obtained from the Field Trial will be used to gauge the suitability of using assessment instruments with more than one language in the Main Survey.

In all cases the choice of test language(s) in the assessment instruments is made prior to the administration of the test.
1.1.3. **Field Trial participation**

17. **Rationale:** The Field Trial gives countries the opportunity to try out the logistics of their test procedures and allows the contractors to make detailed analyses of the items so that only suitable ones are included in the Main Survey.

<table>
<thead>
<tr>
<th>Standard 3.1</th>
<th>PISA participants participating in the PISA 2021 Main Survey will have successfully implemented the Field Trial. Unless otherwise agreed upon:</th>
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<tbody>
<tr>
<td></td>
<td>• A Field Trial should occur in an assessment language if that language group represents more than 5% of the target population.</td>
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<td></td>
<td>• For the largest language group among the target population, the Field Trial student sample should be a minimum of 200 students per item.</td>
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<td>• For all other assessment languages that apply to at least 5% of the target population, the Field Trial student sample should be a minimum of 100 students per item.</td>
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<td>• For additional adjudicated entities, where the assessment language applies to at least 5% of the target population in the entity, the Field Trial student sample should be a minimum of 100 students per item.</td>
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**Note 3.1** The PISA Technical Standards for the Main Survey generally apply to the Field Trial, except for the Target Population standard, the Sampling standard, and the Quality Monitoring standard. For the Field Trial a sampling plan needs to be agreed upon.

**Note 3.2** The sample size for the Field Trial will be a function of the test design and will be set to achieve the standard of 200 student responses per item.

**Note 3.3** Consideration will be given to reducing the required number of students per item in the Field Trial where there are fewer than 200 students in total expected to be assessed in that language in the Main Survey.

1.1.4. **Adaptation of tests, questionnaires and school-level materials**

18. **Rationale:** In order to be able to assess how the performance in a country has evolved from one PISA cycle to the other, the same instruments have to be used in all assessments. If instruments differ, then it is unclear whether changes in performance reflect changes in competencies or whether they just mirror the variation in the test items. The same holds true for the assessment instruments that are used within a PISA cycle: To validly compare performance across countries, all assessment instruments and other survey materials have to be as equivalent as possible. In fact, it is of utmost importance to provide equivalent information to the students in all countries that take part in the study. Therefore, not only the assessment instruments, but also the instructions given to the students and the procedures of data-collection have to be equivalent. To achieve this goal, other individuals who play a key role in the data-collection process, i.e. the test administrators, school coordinators, and school associates, should receive equivalent information and training in all participating countries.

<table>
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<tr>
<th>Standard 4.1</th>
<th>The majority of test items used in previous cycles will be administered unchanged from their previous administration, unless amendments have been made to source versions, or outright errors have been identified in the national versions.</th>
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<tr>
<td>Standard 4.2</td>
<td>All assessment instruments are equivalent to the source versions. Agreed upon adaptations to the local context are made if needed.</td>
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Standard 4.3 National versions of questionnaire items used in previous cycles will be administered unchanged from their previous administration, unless amendments have been made to source versions, outright errors have been identified in the national versions, or a change in the national context calls for an adjustment.

Standard 4.4 The questionnaire instruments are equivalent to the source versions. Agreed upon adaptations to the local context are made if as needed.

Standard 4.5 School-level materials are equivalent to the source versions. Agreed upon adaptations to the local context are made as needed.

Note 4.1 The quality assurance requirements for this standard apply to instruments that are in an assessment language used as a language of instruction for more than 10% of the target population.

19. Quality assurance

- Agreed upon adaptation to school-level materials using methods specified by the international contractors
- Questionnaire Adaptation Spreadsheet (QAS)
- Test Adaptation Spreadsheets (TAS, for paper and computer instruments) or other agreed upon monitoring tool in which adaptations to assessment units, orientation and help files and coding guides are documented. For languages that are the languages of instruction for 10% or more of the target population, adaptations will be checked for compliance with the PISA Translation and Adaptation Guidelines by international verifiers, and the verifiers’ recommendations will be vetted by the translation referee.
- For languages that are the languages of instruction for 10% or more of the target population: Verifier Reports (verification statistics generated by the monitoring tool, in combination with a short qualitative report)
- Field Trial and Main Survey Review Forms.
- Item and scale statistics generated by the international contractors (assessment materials and questionnaires).

1.1.5. Translation of assessment instruments, questionnaires and school-level materials

20. Rationale: To be able to compare the performance of students across countries, and of students with different instruction languages within a country, the linguistic equivalence of all materials is central. While Standards 4.1 to 4.4 serve to ensure that equivalent information is given to the students in all countries involved, in general, the following Standards 5.1 and 5.2 emphasise the importance of language. Again the goal is to ensure that competencies will be assessed, and not variations of information caused by differences in the translation of materials.

Standard 5.1 The following documents are translated into the assessment language in order to be linguistically equivalent to the international source versions.

- All administered assessment instruments
- All administered questionnaires
- The Test Administrator script from the Test Administrator (or School Associate) Manual
- The Coding Guides (unless otherwise agreed upon)

**Standard 5.2** Unless otherwise agreed upon, school-level materials are translated/adapted into the assessment language to make them functionally equivalent to the international source versions.

**Note 5.1** The quality assurance requirements for this standard apply to instruments that are in a language that is administered to more than 10% of the target population.

21. **Quality assurance**

- Agreed upon Translation Plan, developed in accordance with the specifications in the PISA operations manuals, that requires double translation by independent translators followed by reconciliation for any newly translated questionnaires and cognitive instruments; and a thoroughly documented adaptation process for any materials adapted from one of the source versions, from a common reference version, or from verified materials borrowed from another country.
- Agreed Upon Questionnaire Adaptation Spreadsheet (QAS)
- Test Adaptation Spreadsheets (TAS) or other agreed upon monitoring tool in which adaptations to assessment units, orientation and help files and coding guides are documented. Adaptations will be checked for compliance with the PISA Translation and Adaptation Guidelines by international verifiers, and the verifiers' recommendations will be vetted by the translation referee.
- Verifier Reports (verification statistics generated by the monitoring tool, in combination with a short qualitative report)
- Submitted final materials as used in the study
- Field Trial and Main Survey Review Forms
- Item and scale statistics generated by the international contractors (assessment materials and questionnaires)

**1.1.6. Testing of national software versions**

22. **Rationale:** Countries must thoroughly test and validate the national software releases that are used to deliver the PISA computer-based instruments in schools, as well as the online questionnaires that are delivered via the Internet.

**Standard 6.1** The international contractors must test all national software versions prior to their release to ensure that they were assembled correctly and have no technical problems.

**Standard 6.2** Once released, countries must test the national software versions following testing plans to ensure the correct implementation of national adaptations and extensions, display of national languages, and proper functioning on computers typically found in schools in each country. Testing results must be submitted to the international contractors so that any errors can be promptly resolved.
23. **Quality assurance**
   - Detailed testing plans
   - Review of testing results

**1.1.7. Technical support**

24. **Rationale:** Countries participating in the computer-based delivery mode will be primarily responsible for resolving PISA-related operational issues in their countries, including hardware issues and provision of technical support to schools and test administrators.

| Standard 7.1 | Each country should have a designated PISA helpdesk with contact information provided to each of its test administrators and school coordinators. |
| Standard 7.2 | In countries that administer the computer-based version of PISA, the helpdesk staff must: |
| | • be familiar with the PISA computer system requirements applications and training materials, |
| | • be familiar with all national software standards and procedures; and |
| | • attend the test administrator training sessions to become familiar with the computer-based assessments and appreciate the challenges faced by schools and test administrators. |

25. **Quality assurance**
   - National Centre Quality Monitoring
   - Field Trial and Main Survey Review Forms

**1.1.8. Test administration**

26. **Rationale:** Certain variations in the testing procedure are particularly likely to affect test performance. Among them are session timing, the administration of test materials and support material like blank papers and calculators, the instructions given prior to testing, the rules for excluding students from the assessment, etc. A list of these and other relevant test conditions is given in the school-level materials. To ensure that the data are collected consistently, and in a comparable fashion, for all participants, it is therefore very important to keep the chain of action in the data collection process as constant as possible.

27. Furthermore, the goal of the assessment is to arrive at results which cover a wide range of areas. Given the time constraints, any one student is presented only with a certain portion of the test items. Moreover, to preclude sources of random error unforeseen by the test administrators and the test designers, the students taking part in the survey have to be selected a-priori, in a statistically random fashion. Only then will the students participating in the study mirror the population of fifteen-year-old students in the country. The statistical analysis will take this sampling design into account, thereby arriving at results that are representative for the population at large. For these reasons, it is of utmost importance to assign the proper instruments (tests and questionnaires) to the participants specified beforehand. The student tracking form is central in monitoring whether this goal has been achieved.
28. The test administrator plays a central role in all of these issues. Special consideration is therefore given to the training of the test administrators, ensuring that as little variation in the data as possible is caused by random or systematic variation in the activities of test administrators.

29. An important part of the testing situation relates to the relationship between test administrators and test participants. Therefore, any personal interaction between test administrators and students, either in the past or in the testing situation, counteracts the goal of collecting data in a consistent fashion across countries and participants. Strict objectivity of the test administrator, on the other hand, is instrumental in collecting data that reflect the level of literacy obtained, and that are not influenced by factors un-related to literacy. The results based on these data will be representative for the population under consideration.

Standard 8.1 All test sessions follow international procedures as specified in the PISA school-level materials, particularly the procedures that relate to:

- test session timing,
- maintaining test conditions,
- responding to students’ questions,
- student tracking, and
- assigning assessment materials.

Standard 8.2 The relationship between Test Administrators and participating students must not compromise the credibility of the test session. In particular, the Test Administrator should not be the reading, mathematics, or science instructor, a relative, or a personal acquaintance of any student in the assessment sessions he or she will administer for PISA.

Standard 8.3 National Centres must not offer rewards or incentives that are related to student achievement in the PISA test to students, teachers, or schools.

Note 8.1 Test Administrators should preferably not be school staff.

Note 8.2 This does not apply to incentives or rewards intended to improve participation, and that are unrelated to student achievement in the PISA test.

30. Quality assurance

- Session Report Forms
- PISA Quality Monitors feedback and Data Collection Forms (only for Main Survey)
- Field Trial and Main Survey Review Forms

1.1.9. Training support

31. Rationale: NPMs or their designees shall participate in a train-the-trainer session conducted by qualified contractor staff. This facilitates standardisation of training delivery to test administrators, allows trainers to become familiar with PISA materials and procedures, and informs trainers of their responsibilities for overseeing the PISA testing.
**Standard 9.1** Qualified contractor staff will conduct trainer training sessions with NPMs or designees on PISA materials and procedures to prepare them to train PISA test administrators.

**Standard 9.2** NPMs or designees shall use the comprehensive training materials and approach developed by the contractors and provided on the PISA Portal to train PISA test administrators.

**Standard 9.3** All test administrator training sessions should be scripted to ensure consistency of presentations across training sessions and across countries. Failure to do so could cause errors in data collection and make results less comparable.

**Standard 9.4** In-person and/or web based test administrator trainings should be conducted by the NPMs or designees, unless a suitable alternative is agreed upon.

**Standard 9.5** PQMs need to successfully complete self-training materials, attend webinars to review and enhance the self-training, and attend the test administrator training, unless otherwise agreed upon.

32. **Quality assurance**

- Participation in trainer training sessions in standardised procedures by qualified contractor staff
- National Centre Quality Monitoring
- Field Trial and Main Survey Review Forms
- Standard training of PQMs
- Review of Test Administrator Training Observation Forms

1.1.10. **Implementation of national options**

33. **Rationale:** These standards serve to ensure that for students participating both in the international and the national survey, the national instruments will not affect the data used for the international comparisons. Data are therefore collected consistently across countries, and potential effects like test fatigue, or learning effects from national test items, are precluded.

**Standard 10.1** Only national options that are agreed upon between the National Centre and the international contractors are implemented.

**Standard 10.2** Any national option instruments that are not part of the core components of PISA are administered after all the test and questionnaire instruments of the core component of PISA have been administered to students that are part of the international PISA sample, unless otherwise agreed upon.

1.1.11. **Security of the material and test preparation**

34. **Rationale:** The goal of the PISA assessment is to measure the literacy levels in the content domains. Prior familiarisation with the test materials, or training to the test, will heavily degrade the consistency and validity of the data. In the extreme case, the results would only reflect how well participants are able to memorise the test items. In order to be
able to assess the competencies obtained during schooling rather than short-term learning success, and to make valid international comparisons, confidentiality is extremely important. As high levels of student and school participation in PISA are very important, it is appropriate for national centres to prepare communication materials for participants with the intent to raise awareness, to set out what is involved in participating in PISA and to encourage participation in the survey. These materials may include general information about the survey, what students and schools might expect on the test day, as well as an OECD set of released test materials prepared for this purpose. The use of sample test items in informational materials could also serve to prepare students for the format of the PISA test in order to reduce potential test anxiety and help the students focus on the subject-matter content when taking the test.

**Standard 11.1** PISA materials designated as secure are kept confidential at all times. Secure materials include all test materials, data, and draft materials. In particular:

- no-one other than approved project staff and participating students during the test session is able to access and view the test materials,
- no-one other than approved project staff will have access to secure PISA data and embargoed material, and
- formal confidentiality arrangements will be in place for all approved project staff.

**Standard 11.2** Participating schools, students and/or teachers should only receive general information about the test prior to the test session, rather than formal content-specific training. In particular, it is inappropriate to offer formal training sessions to participating students, in order to cover skills or knowledge from PISA test items, with the intention to raise PISA scores.

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**Note 11.1:** It is unnecessary to train students for interacting with the student interface, with different item types or response formats prior to the testing session. All PISA test materials and procedures are accompanied by detailed instructions as well as by orientation modules at the beginning of each test session to ensure that participants are familiarised with the interface and with all the question formats that they will encounter.

**Note 11.2:** “Formal training sessions” refers to training that relies on standardised instructional material and involves feedback provided by an instructor, machine, or other training participants. Formal training sessions may include (but are not limited to) lectures, practice tests, drills or online instruction modules.

**Note 11.3:** The general information about the survey shared with participants may include information about the length of the test, the general scoring principles applied to missing and incorrect answers, data protection and confidentiality of results. It may include an OECD set of released test materials prepared for this purpose, but should not assemble sample items in PISA-like test forms with the intent to teach or prepare students for participation in PISA.

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35. **Quality assurance**

- Security arrangements as specified in the PISA operations manuals or agreed upon variation
- National Centre Quality Monitoring
- PISA Quality Monitor feedback and Data Collection Forms (only for Main Survey)
- Field Trial and Main Survey Review Forms
1.1.12. Quality monitoring

36. **Rationale:** To obtain valid results from the assessment, the data collected have to be of high quality, i.e. they have to be collected in a consistent, reliable and valid fashion. This goal is implemented first and foremost by the test administrators, who are seconded by the quality monitors. The quality monitors provide country-wide supervision of all data-collection activities for the Main Survey.

<table>
<thead>
<tr>
<th>Standard 12.1</th>
<th>PISA Main Survey test administration is monitored using site visits by trained independent quality monitors.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard 12.2</strong></td>
<td>Fifteen site visits to observe test administration sessions are conducted in each PISA participating country/economy, and five site visits in each adjudicated region.</td>
</tr>
<tr>
<td><strong>Standard 12.3</strong></td>
<td>Test administration sessions that are the subject of a site visit are selected by the international contractors to be representative of a variety of schools in a country/economy.</td>
</tr>
</tbody>
</table>

**Note 12.1** A failure to meet the Quality Monitoring standards in the Main Survey could lead to a significant lack of reliable and valid quality assurance information.

**Note 12.2** The Quality Monitoring standards apply to the Main Survey but not to the Field Trial.

**Note 12.3** The National Centre provides the international contractors the assistance required to implement the site visits effectively. This includes nominating sufficient qualified individuals to ensure that the required number of schools is observed. It also includes timely communication of school contact information and test dates.

37. **Quality assurance**

- The process of selecting the PISA Quality Monitor nominees.
- PISA Quality Monitor feedback and Data Collection Forms (only for Main Survey)

1.1.13. Assembling and printing paper-based materials

38. **Rationale:** Variations in assembly and print quality may affect data quality. When the quality of paper and print is very poor, the performance of students is influenced not only by their levels of literacy, but also by the degree to which test materials are legible. To rule out this potential source of error, and to increase the consistency and precision of the data collection, paper and print quality samples are solicited from National Centres participating in paper-based components in their first cycle of participation.

<table>
<thead>
<tr>
<th>Standard 13.1</th>
<th>All paper-based student assessment material will be centrally assembled by the international contractors and must be printed using the final print-ready file and agreed upon paper and print quality. New countries/entities must submit a printed copy of all Field Trial instruments (booklets and questionnaires) for approval of the printing quality for the Main Survey. The same printing standard must be used for both the Field Trial and the Main Survey.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard 13.2</strong></td>
<td>The cover page of all national PISA test paper-based materials used for students and schools must contain all titles and approved logos in a standard format provided in the international version.</td>
</tr>
<tr>
<td><strong>Standard 13.3</strong></td>
<td>The layout and pagination of all test paper-based material is the same as in the source versions, unless otherwise agreed upon.</td>
</tr>
</tbody>
</table>
Standard 13.4 The layout and formatting of the paper-based questionnaire material is equivalent to the source versions, with the exception of changes made necessary by national adaptations.

Note 13.1 The cover page of all PISA PBA instruments used in schools should contain all information necessary to identify the material as being part of the data-collection process for PISA, and for checking whether the data collection follows the assessment design, i.e. whether the mapping of the student on the one hand, and test booklets and questionnaires, on the other, have been correctly established. The features of the cover page referred to in Standard 13.2 are specified in the PISA operations manuals.

39. **Quality assurance**
   - Agreement that quality will be similar to Field Trial versions
   - For new countries/economies, materials submitted to the international contractors, as described in Standard 13.1 above.
   - Field Trial and Main Survey Review Forms

1.1.14. **Response coding**

40. **Rationale:** To ensure the comparability of the data, the responses from all test participants in all participating countries have to be coded following approved coding designs that are presented to both the Field Trial and the Main Survey. Therefore, all coding procedures have to be standardised, and coders have to complete training sessions to master this task.

Standard 14.1 The coding scheme described in the coding guides is implemented according to instructions from the international contractors’ item developers.

Standard 14.2 Representatives from each National Centre attend the international PISA coder training session for both the Field Trial and the Main Survey.

Standard 14.3 Both the single and multiple coding procedures must be implemented as specified in the *PISA operations manuals* (see Note 14.1). These procedures are implemented in the coding software that countries will be required to use.

Standard 14.4 Coders are recruited and trained following agreed procedures.

Note 14.1 Preferred procedures for recruiting and training coders are outlined in the *PISA operations manuals*.

Note 14.2 The number of Coder Training session participants will depend on factors such as the expertise of National Centre staff, and resource availability.

41. **Quality assurance**
   - Indices of inter-coder agreement
   - Field Trial and Main Survey Review Forms

1.1.15. **Data submission**

42. **Rationale:** The timely progression of the project, within the tight timelines given depends on the quick and efficient submission of all collected data. Therefore, one single data submission format is proposed, and countries are asked to submit only one database to the international contractors. Furthermore, to avoid potential errors when consolidating the national databases, any changes in format that were implemented subsequent to the general agreement have to be announced.
Standard 15.1 Each PISA participant submits its data in a single complete database, unless otherwise agreed upon.

Standard 15.2 All data collected for PISA will be imported into a national database using the Data Management Expert (DME) data integration software provided by the international contractors following specifications in the corresponding operational manuals and international/national record layouts (codebooks). Data are submitted in the DME format.

Standard 15.3 Data for all instruments are submitted. This includes the assessment data, questionnaires data, and tracking data as described in the PISA operations manuals.

Standard 15.4 Unless agreed upon, all data are submitted without recoding any of the original response variables.

Standard 15.5 Each PISA participating country’s database is submitted with full documentation as specified in the PISA operations manuals.

Management standards

1.1.16. Communication with the international contractors

43. Rationale: Given the tight schedule of the project, delays in communication between the National Centres and the international contractors should be minimised. Therefore, National Centres need continuous access to the various resources provided by the contractors.

Standard 16.1 The international contractors ensure that qualified staff are available to respond in English to requests by the National Centres during all stages of the project. The qualified staff:

- Are authorised to respond to National Centre queries,
- Acknowledge receipt of National Centre queries within one working day,
- Respond to coder queries from National Centres within one working day,
- Respond to other queries from National Centres within five working days, or, if processing the query takes longer, give an indication of the amount of time required to respond to the query.

Standard 16.2 The National Centre ensures that qualified staff are available to respond to requests in English by the international contractors during all stages of the project. The qualified staff:

- Are authorised to respond to queries,
- Are able to communicate in English,
- Acknowledge receipt of queries within one working day,

Respond to queries from the international contractors within five working days, or, if processing the query takes longer, give an indication of the amount of time required to respond to the query.
Note 16.1 Response timelines and feedback schedules for the National Centres and the international contractor are further specified in the Tasks section of the PISA Portal.

1.1.17. Notification of international and national options

44. **Rationale:** Given the tight timelines, the deadlines given in the following two standards will enable the international contractors to progress with work on time.

**Standard 17.1** National options are agreed upon with the international contractors before 1 December in the year preceding the Field Trial and confirmed before 1 November in the year preceding the Main Survey.

**Standard 17.2** The National Centre notifies the OECD Secretariat of its intention to participate in specific international options three months prior to the start of the translation period. International options can only be dropped between the Field Trial and the Main Survey, not added.

1.1.18. Schedule for submission of materials

45. **Rationale:** To meet the requirements of the work programme, and to progress according to the timelines of the project, the international contractor will need to receive a number of materials on time.

**Standard 18.1** An *agreed upon Translation Plan* will be negotiated between each National Centre and the international contractors.

**Standard 18.2** The *following* items are submitted to the international contractors in accordance with *agreed timelines*:

- the Translation Plan
- a print sample of booklets prior to final printing, for new countries/entities using the paper-based instruments (where this is required, see Standard 13.1),
- results from the national checking of adapted computer-based assessment materials and questionnaires,
- adaptations to school-level materials,
- sampling forms (see Standard 1),
- demographic tables,
- completed Field Trial and Main Survey Review Forms,
- documents related to PISA Quality Monitors: nomination information, Test Administrator training schedules, translated school-level materials, school contact information, test dates, and
- other documents as specified in the PISA operations manuals.

**Standard 18.3** *Questionnaire* materials are submitted for linguistic verification only after all adaptations have been *agreed upon*. 
Standard 18.4 All adaptations to those elements of the school-level materials that are required to be functionally equivalent to the source as specified in Standard 5.2, need to be agreed upon.

46. Quality assurance
   - Agreed upon Translation Plan
   - International contractors’ records from communications, forms, or documents
   - Assessment materials submitted for linguistic verification with corresponding adaptation spreadsheets filled in by the National Centre

1.1.19. Management of data

47. Rationale: Consolidating and merging the national databases is a time-consuming and difficult task. To ensure the timely and efficient progress of the project, the international contractors need continuous access to national resources helping to rule out uncertainties and to resolve discrepancies. This standard aims to prevent substantial delays to the whole project which could result from a delay in processing the data of a small number of participating countries.

Standard 19.1 The timeline for submission of national databases to the international contractors is within eight weeks of the last day of testing for the Field Trial and within eight weeks of the last day of testing for the Main Survey, unless otherwise agreed upon.

Standard 19.2 National Centres execute data checking procedures as specified in the PISA operations manuals before submitting the database.

Standard 19.3 National Centres make a data manager available upon submission of the database. The data manager:
   - is authorised to respond to international contractor data queries,
   - is available for a three-month period immediately after the database is submitted unless otherwise agreed upon,
   - is able to communicate in English,
   - is able to respond to international contractor queries within three working days, and
   - is able to resolve data discrepancies.

Standard 19.4 A complete set of PISA paper-based instruments as administered and including any national options, is forwarded to the international contractors on or before the first day of testing. The submission must include the: electronic PDF and/or Word versions of all instruments

Standard 19.5 To enable the PISA participant to submit a single dataset, all instruments for all additional adjudicated entities will contain the same variables as the primary adjudicated entity of the PISA participant.

Note 19.1:
Each participating country/economy will receive its own national micro-level PISA database (the "national database"), in electronic form and delivered as agreed upon a pre-specified timeline that varies based on their data submission. The national database will
contain the complete set of responses from the students, school principals and surveyed participants (parents, teachers) in that country/economy.

Each participating country/economy has access to and can publish its own data after a date that is established by the PISA Governing Board for the publication of the initial OECD publication of the survey results (the “initial international OECD publication”).

The OECD Secretariat will not release national data to other countries/economies until participating countries/economies have been given an opportunity to review and comment on their own national data and until the release of such data has been approved by the national authorities.

A deadline and procedures for withdrawing countries/economies’ national data from the international micro-level PISA database (the "international database") will be decided upon by the PISA Governing Board. Countries/economies can withdraw data only prior to obtaining access to data from other countries/economies. Withdrawn data will not be made available to other countries/economies.

The PISA Governing Board will discuss with participating countries/economies whose data manifests technical anomalies as to whether the data concerned can be included in the international database. The decision of the PISA Governing Board will be final. Participating countries/economies may, however, continue to use data that are excluded from the international database at the national level.

The international contractors will then compile the international database, which will comprise the complete set of national PISA databases, except those data elements that have been withdrawn by participating countries/economies or by the PISA Governing Board at the previous stage. The international database will remain confidential until the date on which the initial international OECD publication is released.

National data from all participating countries/economies represented in the international database will be made available to all participating countries/economies from the date on which the initial international OECD publication is released.

After release of the initial international OECD publication, the international database will be made publicly available on a cost-free basis, through the OECD Secretariat. The database may not be offered for sale.

The international database will form the basis for OECD indicator reports and publications.

The international contractors will have no ownership of instruments or data nor any rights of publication and will be subject to the confidentiality terms set in this agreement.

The OECD establishes rules to ensure adherence to the above procedure and to the continued confidentiality of the PISA data and materials until the agreed release dates. These include confidentiality agreements with all individuals that have access to the PISA material prior to its release.

As guardian of the process and producer of the international database, the OECD will hold copyright in the database and in all original material used to develop, or be included in, the PISA Field Trial and PISA Main Survey (among them the assessment materials, school-level materials, and coding guides) in any language and format.

48. Quality assurance
   • International contractors’ records of communications, forms, or documents

1.1.20. Archiving of materials

49. Rationale: The international contractors will maintain an electronic archive. This will provide an overview of all materials used and ensure continuity of materials available in participating countries across PISA survey cycles, therefore building upon the knowledge gained nationally in the course of the PISA cycles. This will also ensure that the international contractors have the relevant materials available during data cleaning, when they are first required.

**Standard 20.1** The international contractors will maintain a permanent electronic archive of all assessment materials, school-level materials and coding guides, including all national versions. For documents that are finalised by countries, they are required to upload the latest version to the PISA Portal.
Standard 20.2 The National Project Manager must submit one copy of each of the following adapted and translated Main Survey materials to the international contractors:

- electronic versions (Word and/or PDF) of all administered Test Instruments, including international and national options
- electronic versions (Word and/or PDF) of all administered Questionnaires, including international and national options (paper-based countries only);
- electronic versions of the school-level materials; and
- electronic versions of the Coding Guides.

Standard 20.3 Unless otherwise requested, National Centres will retain (1) all Field Trial materials until the beginning of the Main Survey, and (2) all Main Survey materials until the end of the calendar year, two years after the year when the Main Survey is conducted, (i.e., when the last international reports containing the results of the Main Survey will have been published).. Materials to be archived include:

- all respondents’ paper-based test booklets and questionnaires (PBA countries or whenever paper-based materials are used in CBA countries)
- all respondents’ SDS result files and all associated data obtained from USB drives or other delivery mode (CBA countries)
- all sampling forms,
- all respondent lists,
- all tracking instruments, and
- all data submitted to the international contractors.

After completion of a survey, the National Centre will transfer final versions of all national materials to the international contractors who will compile the national archives from all participants and transfer them to OECD after completion of the Main Survey.

Note 20.1. Archiving applies to all materials from the Field Trial or Main Survey, including student, school, parent and teacher materials, as applicable.

Note 20.2. Should national legislation or other circumstances require that the Field Trial or Main Survey materials be deleted/erased before the timeline in Standard 20.3, countries must nevertheless retain these records, at a minimum, until the publication of the PISA dataset (and publication of the related international reports).

Note 20.3. It is recommended to retain the original USB drives (if used) and all paper-based booklets and questionnaires for all respondents until certified data has been released to the National Centres. Original USB drives are not required for long-term archiving purposes as long as there are copies of SDS result files for all respondents.

Note 20.4. Sampling forms for each sampling task for the Field Trial and Main Survey data collections must be retained for the periods outlined in Standard 20.3.

Note 20.5. “Respondent lists” refers to the student list (and teacher list if applicable) used for within-school sampling, and must be retained until, at a minimum, the period set out in Note 20.2.

Note 20.6. “Tracking instruments” refers to the Student Tracking Form (and Teacher Tracking Form if applicable) completed in each school, and must be retained until, at a minimum, the period set out in Note 20.2.
1.1.21. Data protection and the processing of personal data

50. Rationale: The OECD is committed to protecting the personal data it processes, in accordance with its Personal Data Protection Rules. The OECD, countries and contractors must protect the personal data of participants collected during PISA, ensuring that all data is stored and processed in a secure and standardised manner. This standard aims to ensure that National Centres process personal data securely, that participants are provided with clear information on data protection in PISA and the data rights of participants to access, rectify or erase their data are facilitated by countries and contractors.

Standard 21.1 Each National Centre must make data protection information available to all participants, that at least includes:

- Contact details of the National Centre
- Contact details of the OECD’s Data Protection Officer and Data Protection Commissioner
- The purpose of the processing of the data
- Recipients of the data, including any international organisations or third party (this includes the PISA contractors and any national contractors)
- The storage and retention period of data
- The existence of the rights of data subjects, including the timeline for facilitating these requests.

Standard 21.2 Each National Centre will process the additional information related to a participant/data subject (e.g., link files with records of student names) securely and separately from the datasets during data processing and archiving (i.e. the data collected during the assessment will be categorised and treated as pseudonymised).

Standard 21.3 National Centres must inform schools or other holders of PISA forms that include student and/or teacher names, to delete, confidentially shred or return these materials to the National Centre. Materials to be deleted/shredded/returned include:

- All tracking instruments
- All respondent lists.

Standard 21.4 Each National Centre must facilitate requests from participants to exercise their data rights.

- Data access requests will be possible using the raw data from the assessment. No scaled data will be provided in breach of the PISA data embargo.
- Data erasure requests will be possible for a limited period before submission to the Contractors. This is to be decided by each National Centre, with two options, up to the submission of ST12 or to upload of student data files to the OECS.
- Each National Centre will retain and update a log of completed data requests for data erasure, to facilitate quality control processes. This information must be submitted to the PISA contractors in a timely manner to comply with the requests and for the purpose of data management and sampling processes.

Note 21.1. It is best practice to make data protection information available to participants at the time of the data collection.
Note 21.2. National Centres may communicate data protection information to participants in the most effective way for their national context. The information may be provided in several ways, e.g., a video, an information sheet, a data protection notice, on a National Centre website or a link to the OECD’s PISA 2022 data protection notice.

Note 21.3. “Tracking instruments” refers to the Student Tracking Form (and Teacher Tracking Form if applicable) completed in each school. “Respondent lists” refers to a list of students (or list of teachers if applicable) used during the implementation of PISA.

Note 21.4. The records of student/teacher names in link files or on PISA forms are permitted but must be stored separately and securely to the data collected during the assessment.

Note 21.5. The data collected from students as part of PISA is categorised as pseudonymised, as identifying characteristics in the data have been replaced with a number or value that does not allow the data subject to be directly identified. This also pertains to data from parents or teachers, if applicable. Pseudonymisation means that the data collected remains personal data, but can no longer be assigned to a natural person without additional information (e.g., record of a student name and the PISA student ID number).

Note 21.6. After the archiving period for the Field Trial and Main Survey materials, National Centres may choose and are encouraged to anonymise the data by breaking the link between the name of the student and the data from the cognitive and questionnaire sessions. Anonymisation of the data requires deleting and/or confidentially shredding all files and records that connect the PISA student ID number to identifying information (name, date of birth, national student ID, etc.). Once anonymisation is complete and all records of a participant’s name are removed, it will be no longer possible to facilitate access and erasure requests.

Note 21.7. The timeline of disposal/return of PISA forms retained by schools is to be decided by the National Centre and communicated to schools. This should be before the end of the archiving period set out in Standard 20.3.

51. Quality assurance:

Adherence to this standard is a National Centre responsibility.

- Retain a copy of national data protection information for PISA 2022 made available to respondents.
- Agreement that additional information related to data subject (e.g., linking information) will be stored separately and securely from datasets.
- Agreement to set and follow-up on the timeline and procedures for the deletion and/or shredding of data in PISA forms held by other parties involved in the implementation of PISA.
- Retain a record of completed data access or erasure requests and submit requests to international contractors in a timely manner.

National involvement standards

1.1.22. National feedback

52. Rationale: National feedback in areas such as test development is important in maintaining the dynamic and collaborative nature of PISA. National feedback ensures that instruments achieve cross-national, cross-cultural and cross-linguistic validity. It also promotes the inclusion of the interests and involvement of national stakeholders.

Standard 22.1 National Centres develop appropriate mechanisms in order to promote participation, effective implementation, and dissemination of results amongst all relevant national stakeholders.

Standard 22.2 National Centres provide feedback to the international contractors on the development of instruments, domain frameworks, the adaptation of instruments, and other domain-related matters that represent the perspectives of the relevant national stakeholders.
Note 22.1 As a guideline, feedback might be sought from the following relevant stakeholders: policy makers, curriculum developers, domain experts, test developers, linguistic experts and experienced teachers.

53. Quality assurance
   • National Centre Quality Monitoring
   • List of committees and groups of stakeholders
   • Membership records of representative groups and/or committees
   • Meeting records of representative groups and/or committees

1.1.23. Meeting attendance

54. Rationale: Attendance at National Project Managers and training meetings is required as these represent a key component of participating in PISA. Important information is shared and discussed and training in data management, sampling, computer systems, and coding is conducted at these international meetings. These also allow for individual consultation and communication with the international contractors, which is often very helpful.

Standard 23.1 Representatives from each National Centre are required to attend all PISA international meetings including National Project Manager meetings, coder training, and any separate within-school sampling training, and data management training, as necessary. Up to 6 international meetings are planned per cycle.

Standard 23.2 Representatives from each National Centre who attend international meetings must be able to work and communicate in English.

Note 23.1 The length of these meetings vary from 3 to 5 days.

Note 23.2 Based on the meeting type and hotel arrangements, the OECD Secretariat may, on the request of the international contractors, set a limit to the number of representatives per country that can attend NPM meetings. Countries/economies with separate participating entities will have the possibility to send teams from all entities.

55. Quality assurance
   • Meeting attendance records

Definitions

Adjudicated Entity – a country, geographic region, or similarly defined population, for which the international contractors fully implements quality assurance and quality control mechanisms and endorses, or otherwise, the publication of separate PISA results. A PISA participant may manage more than one adjudicated entity.

Agreed procedures – procedures that are specified in the PISA operations manuals, or variations that are mutually agreed upon between the National Project Manager and the international contractors.

Agreed timelines – timelines that are specified in the PISA operations manuals, or variations that are mutually agreed upon between the National Project Manager and the international contractors.
Agreed upon – variations that are mutually agreed upon between the National Project Manager and the international contractors

Anonymisation - personal data is rendered anonymous, by irreversibly removing the link between each respondent’s personal identifier (e.g., respondent name) and the data in the PISA dataset. This is achieved by deleting and erasing all additional information sources containing the link, so respondents in the PISA dataset cannot be personally identified. This applies to students, parents or teachers, if these options are administered, and anonymisation can be pursued after the archiving period in Standard 20.3.

Centrally produced reference documents – documents provided in English (and, for some documents, French and/or Spanish) by the international contractors according to contractual specifications.

Common reference version – a language version of assessment instruments that is used by countries sharing that language as a starting point to produce their respective national versions.

International options – optional additional international instruments or procedures sponsored by the OECD and fully supported by the international contractors.

National Centre quality monitoring – the procedures by which the international contractors monitor the quality of all aspects of the implementation of the survey by a National Centre.

National option – a national option occurs if:

a) National Centre administers any additional instrumentation, for example a test or questionnaire, to schools or students that are part of the PISA international sample. Note that in the case of adding items to the questionnaires, an addition of five or more items to either the school questionnaire or the student questionnaire is regarded as a national option.

OR

b) National Centre administers any PISA international instrumentation to any students or schools that are not part of an international PISA sample (age-based or grade-based) and therefore will not be included in the respective PISA international database.

OR

c) National Centre administers any PISA international option only in some, not all, jurisdictions. The country will in this case sign up for the international option with the OECD, as if it was administered in the entire jurisdiction, and the additional work involved with administering the international option to part of the jurisdiction only is considered a national option.

PISA-eligible students – students who are in the PISA target population. Also see PISA Target Population.

PISA National Project Manager (NPM) – The NPM is responsible for overseeing all national tasks related to the development and implementation of PISA throughout the entire cycle. The NPM is responsible for ensuring that tasks are carried out on schedule and in accordance with the specified international standards.

PISA Operations Manuals – all manuals provided by the international contractors. The preparation of the PISA operations manuals will be carried out by the international
contractors and will describe procedures developed by the international contractors. The manuals will be prepared following consultation with participating countries/economies, the OECD Secretariat, the Technical Advisory Group and other stakeholders.

**PISA Participant** – an administration centre, commonly called a National Centre, that is managed by a person or persons, usually the National Project Manager, who is/are responsible for administering PISA in one or more adjudicated entities. The National Project Manager(s) must be authorised to communicate with the international contractor on all operational matters relating to the adjudicated entities for which the National Project Manager is responsible.

**PISA Portal** – the PISA 2022 project website can be accessed through the following address: [http://pisa.ets.org/portal](http://pisa.ets.org/portal).

**PISA Quality Monitor (PQM)** – a person nominated by the National Project Manager and employed by the international contractors to monitor test administration quality in an adjudicated entity.

**PISA Target Population** – students aged between 15 years and 3 (completed) months and 16 years and 2 (completed) months at the beginning of the testing period, attending educational institutions located within the adjudicated entity, and in grade 7 or higher. The age range of the population may vary up to one month, either older or younger, but the age range must remain 12 months in length. That is, the population can be as young as between 15 years and 2 (completed) months and 16 years and 1 (completed) month at the beginning of the testing period; or as old as between 15 years and 4 (completed) months and 16 years and 3 (completed) months at the beginning of the testing period.

- **PISA Desired Target Population** – the PISA Target Population defined for a specific adjudicated entity. It provides the most exhaustive coverage of PISA-Eligible students in the participating country/economy as is feasible.
- **PISA Defined Target Population** – all PISA-Eligible students in the schools that are listed on the school sampling frame. That is, the PISA Desired Target Population minus school-level exclusions.

**Pseudonymisation** – personal data where the personal identifier (e.g., respondent’s name) is replaced by an artificial identifier (pseudonym). In PISA, the respondent’s name is not included in the data collected on the assessment day, but is replaced with an ID number. Therefore the data is categorised as pseudonymised, as long as the additional information linking the respondent name and the PISA respondent ID is stored in a different file or location.

**School Associate (SA)** – a person at a school who acts as a liaison between the school and the National Centre to prepare for the assessment and who administers the assessment to students on the day of the assessment.

**School Co-ordinator (SC)** – a person at a school who acts as a liaison between the school and the National Centre to prepare for the assessment in the school.

**School-level exclusions** – contractors’ approved exclusion of schools from the sampling frame because:

- of geographical inaccessibility (but not part of a region that is omitted from the PISA Desired Target Population),
• administration of the PISA assessment within the school would not be feasible,
• all students in the school would be within-school exclusions, or
• of other reasons as agreed upon.

School-level materials – the key materials include:
• School Co-ordinator Manual and Test Administrator Manual (or School Associate Manual)
• Test administration scripts
• Key forms – Student Tracking Form, Session Attendance Form, and Session Report Form

Source versions assessment instruments provided in English (and, for some documents, in French) by the international contractors according to contractual specifications.

Target cluster size – the number of students that are to be sampled from schools where not all students are to be included in the sample.

Test administrator – a person who is trained by the National Centre to administer the PISA test in schools. This person may be a Test Administrator or a School Associate (a School Co-ordinator who also has the role of a Test Administrator).

Testing period – the period of time during which data is collected in an adjudicated entity.

Translation plan – documentation of all the processes that are intended to be used for all activities related to translation and languages.

Within-school exclusions – potential exclusion of students from assessment because of one of the following:
• They are functionally disabled in such a way that they cannot take the PISA test. Functionally disabled students are those with a moderate to severe permanent physical disability.
• They have a cognitive, behavioural or emotional disability confirmed by qualified staff, meaning they cannot take the PISA test. These are students who are cognitively, behaviourally or emotionally unable to follow even the general instructions of the assessment.
• They have insufficient assessment language experience to take the PISA test. Students who have insufficient assessment language experience are those who meet all the following three criteria:
  – they are not native speakers of the assessment language,
  – they have limited proficiency in the assessment language, and
  – they have received less than one year of instruction in the assessment language.
• There are no materials available in the language in which the student is taught.
• They cannot be assessed for some other reason as agreed upon.