



Application process – TCO certification of Flat Panel Displays for TCO'03, TCO'06, TCO Displays 5.0 TCO Edge Displays and 'All in One'/Thin client

You need the following document:

- Application

The application form is on the TCO webpage: www.tcodevelopment.com on the right side of the page under the product group you want to certify to

Here you will also find our:

- Pricelist
- Accepted test laboratories

1. Test the product and make the ecological review

A sample of the product must be tested and comply with all applicable requirements in the criteria document. The sample shall be representative of those in mass production, but prototypes are accepted. All declarations in the ecological part must pass an ecological review. See List of accepted laboratories for information about performing the testing and ecological reviews. These companies are competitors and have their own pricing policies. The test laboratory will only report to the applicant. TCO Development will not have access to any information about ongoing tests without the applicant's consent.

2. Do you have a signed agreement with TCO Development?

If the applicant company is new to TCO Development, then a signed agreement between TCO Development and the customer in question must exist before their application can be registered. Please provide all relevant company information (full company name, address, telephone number, fax number, website, name of contact person with e-mail address, name of CEO or other person who shall sign the agreement).

3. Send the application to TCO Development

When the product has passed the TCO Development requirements and you have received the test reports/verification letters that confirm this from a test laboratory, you can then apply for a TCO certificate from TCO Development or ask the test laboratory to apply for you.

An application shall consist of the following:

- Application form
- Applicable test reports for
 - Low Emission
 - Energy saving
 - Visual Ergonomics
 - Work load Ergonomics Declaration
 - Ecological verification
 - Edge verification (when applying for Edge certification compliance)
 - Safety certificate (IEC 60 950 or similar) issued by a laboratory within the CB scheme. (Please note that it need not be a CB certificate. If the product is of class III type a copy of the safety certificate for the power supply shall also be submitted.)
- A copy of the marking plate (rating label)
- Type designation key explaining open symbols, which are to be replaced by /*/ (if any). No general explanations such as “* can be A-Z” will be accepted.

If an agent is applying on a client's behalf a power of attorney from the applicant company shall be submitted (scanned copy is OK)

Notes on Full test reports

From 1 of April 2009 TCO require full test reports (or declaration of identity for OEM) with all applications. (A full safety report is not required).

The test report shall include the following information:

- The aspect ratio
- If the product has LED backlight
- If the product has a pivot stand ('Pivot display' comment in display description required. It is not enough with measurement results for $\pm 15^\circ$ in visual ergonomics).
- Photo(s). Total four of the product. The Front & Back, Open Panel and the Panel Marking Label.

Stars (*) in Panel Name

Some clients wish to use wildcards (*) in the panel name. TCO will only accept wildcards covered by the verifications. This means that if the application includes 2 stars and the verifications only 1 star TCO will only accept one star in the certificate.

Note that the test report shall always show the full name of the actual panel tested.

This means that the test laboratory is responsible to review the type key of the panel and guarantee that all possible configurations are covered by the test report and complies with all TCO criteria. TCO recommend that a type key must show what the different configurations mean, not only state that "there is no technical difference".

If different labs are used for the testing and ecology review, then it is the responsibility of the applicant to inform the test labs of their panel number intent so that the panel number on the verifications and application are identical.

OEM Declaration of Identity Verification and Eco document procedure

For a company applying for TCO certification, where a product is completely identical to the original TCO certified product except for Brand and Model names, the alternative brand and original brand product must first be verified by a TCO test laboratory and Ecology reviewer that they are identical.

The test laboratory has the responsibility to issue *only* verification documents that confirm this (no original test report values may be copied into an OEM report).

The test laboratory verifications shall be included in the application sent to TCO Development

The OEM product must be based on an original product that is TCO Certified and the documents used as the basis for the OEM verifications shall not be more than 2 years old.

A "Declaration of Identity" (DOI) shall contain a formal assurance that the products are identical and shall be signed by the responsible person at the applicant company. If there is any deviation, e.g. a technical or used plastic difference compared to the basic model then the Laboratory will make the judgement if a re-test or additional Ecology templates are necessary.



The following documents shall be completed by the Brand owner and sent to the test laboratory for report verification issue:

For TCO03 and TCO06:

- To the Ecology reviewer for verification:
 - A.1.1 (TCO Document)
 - A.6.3.5 (Recycling information & supportive information documents)
 - If any differences in the cover and base then the relevant templates shall be submitted to the eco reviewer
- To the Test Lab & Ecology reviewer for verification:
 - A copy of the marking plate/rating label *
 - A “Declaration of Identity”*
 - Specified type key if used*

For TCO Displays 5.0 certification:

- To Ecology reviewer for verification:
 - A.1.1 (TCO Document)
 - A.6.2.1 (Environmental management system)
 - A.6.2.2 (Social responsibility)
 - A.6.5.1 (Warranty and spare parts)
 - A.6.6.5 (Take-back system)
 - A.6.7.1 (Hazardous substances in product packaging)
 - A.6.7.2 (Preparation for recycling of product packaging material)
- To the Test Lab & Ecology reviewer for verification:
 - A copy of the marking plate/rating label *
 - A “Declaration of Identity”*
 - Specified type key if used*

*** These documents and the test laboratory verifications for Emissions, Energy, Visual Ergonomics and Ecology shall be included with the application form sent to TCO Development**

Send the application in one of the three following formats:

- As a PDF file to certification@tco.se
- As a fax to +46 8 782 9207
- As a regular letter to TCO Development
Linnégatan 14
SE-114 94 Stockholm, SWEDEN

Note! If the applicant has invoices that are 40 days overdue TCO Development reserves the right to not expedite the application. The applicant will be notified about the situation.

4. We send you the certificate

TCO Development will check to see if the application is complete. If it is incomplete, TCO Development will contact the applicant or agent and advise about what is missing. Once the application is complete TCO Development will issue a certificate and send a copy by e-mail or fax to

the recipient indicated on the application form. This is normally done within a week. The original certificate will be sent together with the invoice also within a week.

The table below shows which information is considered critical. Components, such as the LCD panel and external ac adapter, which have been tested as part of the product and have passed, will be indicated on the certificate.

5. Maintaining and updating a TCO certificate

According to the contract between TCO Development and the applicant, it is the applicant's responsibility to ensure that all TCO certified manufactured products consistently fulfil the criteria. If components in the product are changed from the originally tested configuration it will be necessary to verify that the product still fulfils all criteria.

The decision how to verify compliance with the TCO criteria is made by the applicant. However, the table below is a list of so-called critical information that is considered to have an impact on the criteria in a TCO standard. If a critical component shown on the certificate is changed, it is necessary to re-test some of the parameters. The certificate will also need to be updated.

FPD TCO03, TCO06 and TCO Displays,

Critical component / Critical information	Area of Criteria	Retest?	Comments
LCD panel¹⁾	Emission	Yes	
	Energy	Yes	
	Ecology (TCO'03, '06)	Yes	A.6.2.4, A.6.3.2
	Ecology (TCO D5)	Yes	A.6.4 ³⁾ , A.6.6.4
	Visual ergonomics	Yes	
	Work load ergonomics	No	
	Electrical safety	No	Covered
External AC adapter¹⁾	Emission	Yes	
	Energy	Yes	
	Ecology (TCO'03, '06)	Yes	A.6.2.4 If the plastics/flame retardant is changed.
	Ecology (TCO D5)	Yes	A.6.4 ³⁾ If the plastics/flame retardant is changed.
	Visual ergonomics	No	Minimum impact
	Work load ergonomics	No	
	Electrical safety	Yes	Copy of certificate required
New plastics/flame retardants²⁾	Ecology (TCO'03, '06)	Yes	A.6.2.4
	Ecology (TCO D5)	Yes	A.6.4 ³⁾
New manufacturing plant²⁾	Ecology (TCO'03, '06)	Yes	A.6.1
	Ecology (TCO D5)	No	
Additional sales market(s)	Ecology (TCO'03, '06)	Yes	A.6.3.5 & Supportive conformation concerns the recycling information to the listed geographical markets.
	Ecology (TCO D5)	Yes	A.6.6.5 (Yes only if new market lacks take-back legislation)

¹⁾ The LCD panel model number and AC adapter model number will be shown on the certificate. If any of these components are changed the certificate must be updated.



²⁾ If any of the ecological parameters are changed the eco file kept with the test lab must be updated. Normally the certificate will not be updated.

³⁾ All requirements in chapter A.4 (A.6.4.1-A.6.4.5)

6. Certification according to TCO'99

From 1 January 2009, no new applications for TCO'99 are accepted, only updating of existing certificates are allowed until 31 December 2011.

7. TCO Displays 5.0 coverage of earlier TCO criteria

A TCO Display 5.0 report covers TCO'03 and TCO'06 if the following tests are added:

Visual ergonomics

-TCO'03 A.2.5.2 Front frame gloss

-TCO'06 A.2.3.1 Max luminance $\geq 300\text{cd/m}^2$

-TCO'06 A.2.3.3 Black level tested at $\geq 300\text{cd/m}^2$

-TCO'06 A.2.8.1 Video and computer interfaces

-TCO'06 A.2.8.2 Response time measurement (Included if the application is for TCO D5 media)

Ecology

Requirement *A.6.3.5 Recycling information for customers* need to be completed and sent in to an eco-verifier before applying for additional TCO03 or TCO06 compliance.

8. TCO Certified Edge Displays compliance.

It is enough to fulfil one cutting edge criteria. To apply for a TCO Certified Edge certificate it is also necessary that the product is certified according to the regular TCO Certified Displays program.

When applying for Edge you need to send to TCO a Verification page (and test report if testing is necessary) issued by a TCO approved Test laboratory or Ecology reviewer. The Edge approval may either be written into one verification page when applying for TCO Displays & Edge at the same time (e.g. on the Ecology verification) or on a lone verification page (e.g. when upgrading from TCO Displays to TCO Displays Edge).

9. 'All in One' products (integrated network computers or thin clients)

It is possible to certify a combined display and computer according to the TCO certification system. The definitions of these different products are explained in the Energy Star standards.

The product has to comply with the criteria in the latest TCO standard for displays with the addition of the criteria for noise in the latest standard for desktop computers. The energy consumption will be judged according to Energy Star requirements for these different products. (For now (2009) EPA defines these combined products as computers and thus the energy criteria are placed in the Energy Star standard for computers). The product will be labelled with the "TCO certified" label.

If you need more information please contact:

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Certification Process

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