

Information on GeoGebra-Certificates

There are 3 levels of GeoGebra-Certificates:

Level 1 - GeoGebra User, Level 2 - GeoGebra Expert, Level 3 - GeoGebra Trainer

1. **GeoGebra Users** should be able

- to solve basic problems,
- to devise a dynamic worksheet,
- to apply the most important commands to mathematical objects in accordance with the standards of the syllabus,
- to change the properties of objects as required,
- to export the drawing pad as an image and insert it into a word processor,
- to insert texts and pictures in a construction,
- to use GeoGebra online help
- to integrate GeoGebra usefully into maths lessons.

Applicants for GeoGebra Level 1 are required to prove their skills in a two-day workshop and to give a presentation expounding two tasks.

2. **GeoGebra Experts** should additionally be able

- to solve set problems of a higher level of difficulty,
- to analyse and evaluate tasks devised by another author,
- to provide support and guidance to colleagues,
- to use and create GeoGebra tools,
- to create dynamic formulas with variables,
- to develop innovative GeoGebra materials and to share them with colleagues,
- to hold GeoGebra workshops.

Applicants for GeoGebra Level 2 are required to have some experience of applying GeoGebra and to provide a certain number of personally devised worksheet.

Certification as a GeoGebra Expert can be acquired at a special workshop or by devising a number of worksheets over a certain period of time.

3. **GeoGebra Trainers** should additionally be able

- to publish teaching materials in GeoGebraWiki,
- to answer user's questions in the GeoGebra User Forum,
- to give lectures on GeoGebra on a regional basis,
- to do research in the area of application.

Applicants for GeoGebra Level 3 need to have held several workshops and to have considerable experience in solving problems through GeoGebra.

Certification as a GeoGebra Trainer can be acquired at a special workshop or by devising a number of worksheets over a certain period of time and/or by publishing articles or teaching materials in GeoGebraWiki.