

The Hong Kong Girl Guides Association
Interest Certificate Syllabus
Ranger Section

Photography

Group 1

- I. Know how to use a digital camera with the exposure mode and focus mode set to manual.
- II. Describe the operation of a camera, the principle of how images are produced by a camera's image sensor (CMOS), the principle of how colour images are produced with the Bayer filter, or equivalent technique, of CMOS, and the relationship between the size of CMOS and crop factor.
- III.
 1. Explain the relationship among aperture, exposure time and film speed, and know how to choose an appropriate combination in different environments.
 2. Understand the meaning of "depth of field", the relationship between aperture and depth of field, and apply the principle of "depth of field" to shoot photos.
- IV.
 1. Explain the difference between RAW and JPG.
 2. Know how to distinguish different types of memory cards, the standards represented by the capacity and read mechanism stated on the memory cards, and the applicable shooting scenarios.
- V. Explain how to properly use the white balance setting in different lighting environments.
- VI. Explain the application and effects of 2 special filters.
- VII. Know how to use mainstream photography post-processing software, such as changing the white balance, exposure, saturation, and noise reduction, etc. of the original photos.

Group 2

- I. Have 12 months (or more) of experience in using a camera, and try one of the following photography techniques:
 1. Single shot photography (digital photography)
Prepare an exhibition with more than 10 photos. The photos can be taken during a single Girl Guide event, or multiple events organised by Girl Guides or the Sponsoring Organisation of your Unit. The resolution of the photos should not be less than 24 million pixels. There should be descriptions next to the photos. Half or more of the photos should be dynamic photos. All photos must be taken by you, and developed or printed by you if possible.
 2. Use the following photography techniques in an appropriate way:
 - i. Silhouettes
 - ii. Products
 - iii. Flash light
 - iv. Natural light

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Discuss with the Assessor the photography techniques you adopted, and show your understanding of the techniques that you did not use. The photos should include the following:

Static, Landscape, Portrait, Natural phenomenon, Group, Action

II. PowerPoint

1. Hold an exhibition; show a PowerPoint or short video that is suitable for public occasions or annual general meetings. The photos used must be shot by you. There must be transition and voice-over in the PowerPoint or short video.
2. Explain how to mount a lantern slide; explain the pros and cons of mounting with paper or glass, and the protective effect of the two methods on a lantern slide.
3. Explain the key points of saving and storing a PowerPoint or short video; explain the impact of improper storage.

III. Videography or short video

1. Explain the difference between videos and photos, the types of cameras used for the videos and photos, the difficulties encountered by a videographer, and the techniques needed to shoot satisfactory videos.
2. Produce a video of 8 to 10 minutes.
All shooting, editing and production must be done by you. There must be sound effects in the video.
Choose one of the following themes:
 - i. A documentary about the Guiding Movement for public screening
 - ii. A video to be screened at the Annual General Meeting; about one or more Guiding activities organised by the District, Division or Region
 - iii. A promotional video recruiting Brownies or Guides to join the Guides or Rangers section
 - iv. A promotional video recruiting groups or members of the public who are interested in joining the Rangers section or volunteering as a Guider
3. The video must include 3 or more of the following techniques:
 - i. Zooming
 - ii. Tilting up and down
 - iii. Close-up
 - iv. Off-screen sound
 - v. Tracking

You must discuss the above techniques with the Assessor.

Hong Kong Award for Young People

- Holders of this certificate are qualified for the Skills Section at the Bronze/ Progressive Silver/ Direct Silver (Minors) Level of the HKAYP.
(Continuous participation in the activity for a minimum of 6 months)
- Candidates who have completed the Skills Section at the Bronze/ Progressive Silver Level of the HKAYP in the corresponding item are qualified for this certificate.