

Communication Badge

Introduction: The aim of this badge is to facilitate Brigaders' understanding on the development and importance of Information and Communications Technology.

Course Outline

1. Stage 1 Badge

- i. The history major development of information and communications technology.
- ii. Modern modes of communication: Telephone, multimedia computer communication and telecom.
- iii. Morse Code: Understanding the application and principle of Morse Code and using simple tone generator to practise.
- iv. Understanding the principle of telephone communication ; using simple 'linking two cups with one string' telephone to explain the transfer and sending of voice.
- v. Understanding the functions of wireless telephone, fax machine and pager.
- vi. Understanding the regulations for radio from Office of the communication authority.

2. Stage 2 Badge

Choose one item below and conduct thorough study and discussion:

- i. Understanding digital system: principle, advantages and disadvantages
- ii. Overview of multimedia communication : internet, video communication, DVD player, smartphone, tablet
- iii. Basic principles for radio wave, digital, satellite, internet (IP), cable television broadcasting system and its comparison

3. Stage 3 Badge

Choose one item below and conduct thorough study and discussion:

- i. Communication system
 - Principles and services of telephone and fax communication
 - Principles and services of mobile phone comparing with messages (SMS)
 - Principle and service of video communication
 - Basic requirement for phone service under local Telecommunications Ordinance
- ii. Multimedia communication
 - Basic understanding of the internet and its principle
 - Introduction for email system and its advantages and disadvantages
 - Understanding the basic concept for different social networking sites and their advantages, disadvantages (For example: Google Plus, Facebook, Twitter, Plurk , Weibo, Zuosa.com, renren.com, kaixin.com)

- Understanding of different communication softwares and their advantages and disadvantages (For example: GTalk, MSN, Yahoo Messenger, ICQ, AIM, QQ)
- iii. Television and video information
- Introduction of the current television broadcasting standards and local broadcasting standard
 - Basic principle for cable television and satellite television
 - Basic understanding of the technology for DVD player, compressed video and voice file(Mpeg)

Assessment criteria

Write a simple work report including the easiness and difficulties encountered during the learning process, ways to solve difficulties, learning experience and sharing;

Stage 1 Badge

Demonstrate necessary steps for receiving and sending information and to express his/her understanding about the related content in this Badge.

Stage 2, 3 Badge

Brigaders are required to write a report for this Badge .PowerPoint, CDs or any media can be used to help Brigaders to report his work.

Notes

- 1.If Brigaders hold the related radio communication service license, they should not take the related item in this Badge
- 2.The Brigader should show his work record, attendance or training certificate when he is applying for this badge. Competition certificate is not counted for proving his attendance for the activity. If no related and appropriate documents are received, the badge should not be given to the Brigaders.