

Basic GIS Training – January 2016

In January 2016, the MIMU will offer a 10 days intensive training course in the use of Geographic Information Systems applications for humanitarian and development activities. The course will be conducted in Yangon and will focus on the use of the QGIS software (free and open source).

Participants: The course will be limited to 20 trainees. Participants should be staff of humanitarian and development agencies/organizations which are using or intending to use GIS in their projects. Participants should be computer literate and interested to expand their knowledge in this area. Priority will be given to organisations needing to use GIS in their projects. ***Training will be conducted full day as followed schedule. All participants must attend full-time for all 10 days and must bring their own laptops for all training sessions.***

Expected Outcome: The participants will be provided with the basic skills in use of GIS and geospatial standards so as to be able to independently prepare maps for their organization using QGIS software and in collecting the geospatial information and contributing to the development of the Myanmar's geospatial database.

The MIMU will also provide advisory support following the training to assist trainees with any difficulties using the technologies learnt in the training. Participants who have successfully completed this training will be invited to represent their organisation in the Monthly GIS Working Group Meeting held in Yangon.

Training Period: January 18th to January 29th, 2016 (10 days) from 8.30am to 4.30pm daily

Training Schedule:

Sun	Mon	Tue	Wed	Thu	Fri	Sat
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Training Venue: Large Meeting Room, Ground Floor, WFP-OCHA-MIMU Building
No.5, Kanbawza Road, Bahan Township
Yangon

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QGIS Training Agenda and Contents

Training will include an introduction to the relevant Introduction to the background and theory (20% of the course time), Hands-on exercises on use of QGIS (60%), specific practical Projects/assignments (20%) followed by discussions wherever it is relevant.

The training will cover the following topics.

1. Introduction of participants and their needs,
2. Free and Open Source Softwares, Introduction to QGIS, GUI interface, QGIS Configuration, Importing Data, Data Visualization, Exporting Data,
3. Spatial Data Types in GIS, Viewing different data types and Attribute, Labeling, Installing QGIS Plugins, Vector Styling, Basic Queries,
4. Data Capturing and Editing in QGIS, Exploring available GIS datasets, thematic datasets
5. Linking external Tables, opening external datasets, using tabular data in QGIS, making graphs in QGIS, GIS Analysis
6. Map Projection and Projection Conversions, Map Unit, Coordinate System, EPSG Codes, Map Scale, etc.
7. GeoReferencing Raster images
8. Digitizing in QGIS, Attribute Editing, Measuring, Organizational Projects/Assignments,
9. Introduction to GPS, Importing GPS data to QGIS, Live tracking.
10. Introduction to Geoprocessing in QGIS,
11. Introduction to **QGIS Plugins**, OpenLayers Plugins, Terrain Analysis, Countours, eVis, HotLink, Heat map Plugins, Interpolation Plugins, Open Layer Plugins, Topology Checker Plugins,
12. Raster Image Analysis and Processing, Making heat map, Create Contours from DEM, surface interpolation for rainfall,
13. Making Map in QGIS, Map Elements, Pie Chart, Bar Chart, Styling Vector data,
14. Map Layout in QGIS – Print Composer, Making maps for Snapshot, report, printing, making different maps styles,
15. Introduction to GRASS GIS, GIS Modeling, Organizational Map – Project,
16. Introduction to using Google Earth and 3D softwares
17. Using Online Data in QGIS, GeoServer, Open Street map, Google Map, Making heat map,
18. Sharing experiences on using geospatial technologies in organizational projects, Presentations
19. Presentation of mini-projects, Feedback and Discussion

Some topics may change depending on the specific need and the timing.