**Magento Training Guide (Back-end)**

Before being a qualified Magento Back-end developer, you will be arranged for Magento training with duration of 1 month at least. Magento training contains different phases with set timeframe from Phase 1 to Phase 4. After finishing each phase, you will be given an assessment in order to see how much you have mastered, and if you could move forward to next phase. Keep in mind all the time that once you encounter problems in excess of your ability, please do not be hesitated to ask for help from your trainer or other staff in Bluecom. Hope you have a good start!

**Phase 1**

**Duration:** 3 work days

**Objective: Have better understanding of the following points**

1. User Manual
2. Magento concepts: product attribute sets, product attribute type, layered navigation, product types, customer account/profile, admin account and role/permissions.
3. E-commerce related: Sales management, payment methods, Shipping, Tax, Inventory, Market Promotion, Up-sell, Cross Sell, Report, CMS content, Email/Notification, Order life cycle.

**Reference:**

Magneto User Guide PDF document

**Exercise: includes 10 questions and 2 practical exercises**

1. Which product attributes can be used in the layered navigation?
2. Tell me the difference between product types in Magento.
3. A customer has different kinds of products. He wants to have clear indication on what kind of products are when manage them in Magento back-end. What is the best way to achieve this? (Hint, different types of product usually has different kinds of attributes).
4. Please explain how the Magento implemented the ACL to manage user roles and permissions.
5. Please explain order state and order status.
6. By default, Magento supports which payment methods?
7. What is the difference between catalog promotion and shopping cart promotion?
8. How we can create content page?
9. If the customer needs a simple poll function to survey the user opinions on different product colors, to realize this function, we need develop it. Is this right?
10. What the use of the custom variable in Magento?

**Practical exercises:**

1. Create a tax class and configure tax rule. Apply this tax configuration to a product.
2. Define a transaction email template in the back-end.

**Phase 2**

**Duration:** 1 work day

**Objective: Have better understanding of the following points**

1. Magento Back-end Interface.
2. Magento architecture: configuration model, configuration scope, site/store/store\_view, currency, Internationalization, Web Service, EAV.

**Reference:**

<http://www.youtube.com/playlist?list=PL3B0BAAF482B16EAB> tutorial #1 to #24

**Exercise: includes 10 questions and 2 practical exercises**

1. How Magento use EAV for catalog, attribute etc.
2. How config files works for new / overwrites modules ( admin and front ), themes structure and how it works.
3. What these configuration scopes mean: global, design. admin, front-end, adminhtml?
4. What are the sub directories under app/code/ directory; what they meant by code organization?
5. What is theme package? How to define a store front view to use a theme package. How to have a site with multiple themes?
6. Explain the concepts of web site, store, and store view. How to initialize Multilanguage stores? Where the base currency set?
7. How to add locale files for our own extension or customized string?
8. What is an anchor product category?
9. How to adjust the listing order of the products under a certain category?
10. Which types of web services Magento offer? What type you prefer? Why?

**Practical exercises:**

1. Use web service to get and update customer, order data.
2. Configure a Magento installation with three different website, each web site contain only one store, one language. Each website’s base currency matches the locale of language.

**Phase 3**

**Duration**: 10 work days

**Objective: Have a command of Magento internal in depth with following points**

Blocks, Helpers, Collection model, Modle, Extension structure, Set up script/extension upgrade

Template layer: design area, skins, adminHTML (grids, forms, menu ), Theme package, Template fallback

Extension installation exercise, development/profile tools offered by Magento

**Reference:**Fundamentals of Magento Development: training video set - from Magento U

<http://www.youtube.com/playlist?list=PL3B0BAAF482B16EAB> tutorial #25 to #46

**Exercise: includes 10 questions and 2 practical exercises**

To explain how one of the Extensions works, for example: When view product list/grid view, what controller, Blocks, Helpers, models are involved in and how they work together to finally generate the end out, and new Extension for import/export Categories.

1. What is the difference between a normal model and an EAV model?
2. Please explain the configuration xml structure.
3. How to implement an event Observer in Magento?
4. What is a module in Magento? A module has to contain blocks, models, and helpers?
5. How to define a custom route?
6. What is the layout xml? How to use it?
7. What kinds of Blocks Magento have? What block will always just render the children blocks?
8. How to manage the extension install and upgrade scripts to set up resoruces?
9. What is an EAV entity? How Magento manage the product attributes?
10. What is the relationship between a skin and a theme?

**Practical exercises:**

1. Override a Magento content page: use a custom template for the home page.
2. Add a new page in admin under the Report menu.

**Phase 4**

**Duration**: 5 work days

**Objective: Practice what you have acquired by finishing following exercise.**

**Exercise**

1. Basic set up:
   1. Create a multi store view structure and have English and Vietnamese version on the website. The language switch will be achieved by a drop-down menu. Update the needed information in order to have correct content translation on 1 category page and 1 product page
   2. Configure the following promotion rule :
      1. Have a new customer group VIP which would be assigned manually to users
      2. Create a promotions rule in order to give 5% discount on the whole catalog for logged in VIP customers
2. Extension development: Develop a feedback form extension with the following specificities
   1. From FO :
      1. The user can access the feedback form in the same fashion as the “contact us” page
      2. When providing a feedback user will need to provide :
         1. Their name
         2. A subject: this will be a drop-down menu. The subjects list are managed from the BO
         3. A content information
         4. The reply to a Captcha form
         5. A submit or cancel button
      3. On submit, the information are send for storage on the BO
   2. From BO :
      1. Create a new extension menu in the same fashion as “Sales” or “Customers”
         1. The first menu item allows the admin to define the different subjects to be given in the drop-down. This panel allows to add, remove or edit subjects
         2. The second menu item allows seeing the list of comments. Stored information are :
            1. Customer name
            2. Subject
            3. Content (not visible on list view but appearing in the single feedback window when clicking on a feedback)
            4. Contact date
            5. The Website / store /store view the feedback was posted on
         3. When clicking on a feedback, a new windows (in the same fashion as for products or customers) will open and give the full feedback information (with content)
         4. The feedbacks will be filterable in the same fashion as for products or customer listing

Finally, after 4-phase Magento training session, you might have had a good knowledge of Magento programming. Therefore, there will be assessment about your achievement from your trainer which clearly states your performance. Once you pass the assessment, it’s about time to get your feet wet by working on the first Magento Project with your project manager.