Drupal 7 Development Core Concepts	Time
DURATION - 5 days including practical implementation	
Total Time: 11.8 Hours	
1 Welcome to Module Building	22 Min
Why to build a module instead of modifying source code, and how this video series works	6:24:00
Setting up the module folder	2:58:00
About the .info file	3:36:00
Coding the .module file	6:35:00
Our module recreated in 2 minutes and next steps	2:53:00
2 How to Build Module Scaffolding	35 Min
Setting up the .module file structure	3:35:00
The .info file in detail	4:06:00
The .module file in detail	11:52:00
Adding a module settings page in an include file	7:47:00
Adding documentation with the README file	5:52:00
Review and next steps for the "How to Build Module Scaffolding" chapter	2:31:00
3 How Hooks Work and How to Use Theme	1 Hr 10 Min
What hooks are and a demo of our final module	5:58:00
How hooks are invoked with module_invoke_all()	9:57:00
How hooks are invoked with module_invoke()	3:31:00
How hooks are invoked through custom functions	5:21:00
Summary of hook implementations	0:41:00
Using hook_init() to execute code on every page	4:57:00
How to watch data change in the database	2:04:00
How to implement hook_permission()	2:36:00
Adding a settings page with hook_menu()	7:43:00
Implementing scheduled events with hook_cron()	4:25:00
Adding a block starting with hook_block_info()	3:30:00
Adding block configuration with hook_block_configure()	5:19:00
Displaying a block with hook_block_view() and checking permissions with user_access()	10:40:00
Seeing our final module in action and next steps	3:19:00
4 Overview of Coding Standards	26 Min
Why coding standards are useful and important	6:25:00
Using the Coder module to find problems	2:50:00
Working with white space	2:47:00

		Using operators	2:16:00
		Defining functions and class constructors	1:25:00
		Working with arrays	1:30:00
		Quotes and string concatenation	2:08:00
		Writing good comments	2:26:00
		Including code files, php tags and semi-colons	2:28:00
		A few miscellaneous items	2:14:00
	5	Development Tips and Tricks	51 Min
		About the Tips module	3:04:00
		Using url() and l() to generate URLs and links	11:18:00
		Using the t() function to make text translatable	5:51:00
		Using variable_set(), variable_get() and variable_del()	8:41:00
		IDE features and comparison	13:05:00
		How to find out if your module exists already	6:29:00
		Review and next steps for the "Development Tips and Tricks" chapter	2:46:00
	6	How to Build and Manipulate Forms with the Form API	1 Hr 21 Min
		The benefits of using the Form API	6:16:00
		Creating a simple form	7:25:00
		Creating an embedded form	3:33:00
		Using validation functions	5:31:00
		Creating submission functions	2:33:00
		Exploring more form elements and attributes	6:37:00
		Adding usability with the #states attribute	5:09:00
		Modifying forms with hook_form_alter()	7:54:00
		Adding autocomplete to a text input	7:33:00
		Using the #ajax attribute for dynamic form building	12:44:00
		Creating confirmation forms	8:51:00
		Creating a module settings form	7:16:00
	7	How to Add and Manipulate Pages With the Menu System	1 Hr 4 Min
		How the menu system works	4:42:00
		A simple menu callback	5:47:00
		How to use render arrays and tabs	9:41:00
		How to use sub-tabs	2:09:00
		How to add a page without adding a menu item	2:01:00
		How to pass arguments through the path	5:29:00
		How to use placehoders to pass arguments in the middle of a path	5:02:00
		How to load objects through placeholders	8:13:00
		How to create dynamic titles with a title callback	4:09:00

	How to modify page output with hook_page_alter()		7:53:00
	How to modify menu items with hook_menu_alter()		4:03:00
	How to use include files to improve performance and next steps		5:22:00
8	How to Add to and Manipulate the Theme Layer		52 Min
	How the theme layer helps designers and coders work together		4:12:00
	How to invoke a theme function		4:39:00
	A more complex example of theme_item_list()		1:36:00
	How to theme tables and the essence of theming		5:14:00
	How to implement a theme function and how the theme registry works		6:44:00
	How to create template files		6:47:00
	How to use preprocessing functions		7:41:00
	How to add CSS files in theme functions and template files		5:41:00
	How to override theme functions with hook_theme_alter()		5:50:00
	How to override template files and next steps		4:15:00
9	How to Work With the Database		1 Hr 17 Min
	What is the Database API		3:31:00
	Preview of the final module		2:31:00
	Review of existing module		6:39:00
	How to use table schemas and a description of the Schema module		3:19:00
	Building a database table in an external application		3:54:00
	Setting up the install file and generating a schema with the schema module		6:55:00
	The wrong way to write queries, and restructuring the module		6:48:00
	How to write an INSERT query with the Database API		5:36:00
	The 4 big benefits of using the Database API		3:17:00
	How to write a static SELECT query with the Database API		3:42:00
	How to write a DELETE query with the Database API		2:28:00
	How to write a dynamic SELECT query and easily paginate a result set		9:12:00
	A dynamic SQL query in action		3:20:00
	Using hook_update_N() to add a new table		5:48:00
	Adding utility queries and functions for INSERT, SELECT and DELETE		8:58:00
	Review and next steps for the "How to Work With the Database" chapter		1:49:00
10	How to Work With Users		54 Min
	What this video covers and a preview of the final module		2:44:00
	How to modify the user settings form		5:00:00
	How to save data to an authenticated user		11:18:00
	How to modify the user page		6:23:00
	How to work with user permissions (complete)		6:21:00
	How to respond to a user login or logout		3:33:00

	How to add user bulk operations	4:10:00
	How to store anonymous user data in a cookie	9:14:00
	How to store user data in a session variable	4:04:00
	Review and next steps of the "How to Work With Users" chapter	1:45:00
11	**How to Work With Nodes**	**1 Hr 23 Min**
	Introduction to the Node API	2:03:00
	How to load and view a single node and create fake content	10:09:00
	How to load and view multiple nodes at once	2:47:00
	How to manipulate node data with node_save()	3:13:00
	How to add custom data to a node with hook_node_insert() and hook_node_update()	13:03:00
	How to display custom node data in forms and in the node display	8:35:00
	How to add a custom view mode	5:00:00
	How to add bulk operations	4:19:00
	How to control node-based access using hook_node_access()	6:02:00
	How to control node-based access using grants	7:37:00
	How to add a new node type with a module	9:27:00
	How to remove custom content types when a module is uninstalled	3:43:00
	How to add a custom field formatter	5:57:00
	Review and next steps for the "How to Work With Nodes" chapter	1:31:00
12	**How to Work With JavaScript and jQuery**	**2 Hr 3 Min**
	Two major use cases for jQuery and JavaScript and what this video covers	5:59:00
	How to include a JavaScript file on every page and intro to the jQuery object	6:51:00
	How to load JavaScript after a page is done loading	7:08:00
	How to use the dollar sign as an alias for the jQuery object	3:22:00
	How to use jQuery selectors	9:18:00
	How to manipulate content in the DOM (Document Object Model) with jQuery	9:03:00
	How to use jQuery events to add interactivity	6:10:00
	How to use effects and work with CSS in jQuery	6:14:00
	How to use Drupal behaviors to add JavaScript functionality to new content	11:22:00
	How to use drupal_add_js() to include and set the weight of JavaScript files	10:58:00
	How to use drupal_add_js() to add inline JavaScript, use the footer, and store settings	6:15:00
	How to include and define a Drupal JavaScript library	5:09:00
	How to use hook_library_alter() to see what JavaScript libraries are available	3:25:00
	How to use the Drupal Ajax library to load dynamic HTML	14:54:00
	How to dynamically load JavaScript and CSS with Ajax	2:38:00
	How to display status messages when using Ajax	2:26:00
	How to add CSS styles, classes, and JavaScript alerts through Ajax commands	3:06:00
	An overview of JavaScript utilities included in core Drupal	7:14:00
	Review and next steps of the "How to Work With JavaScript and jQuery" chapter	2:14:00