

Table of Contents

Preface	1
Chapter 1: A Guided Tour of Moodle	7
Moodle's philosophy of learning	8
A plan to create your learning site	8
Step-by-step instructions to use Moodle	9
Step 1 – Learning about the Moodle experience	9
Step 2 – Installing Moodle	10
Step 3 – Configuring your site	10
Step 4 – Creating the framework for your learning site	10
Step 5 – Making decisions about common settings	11
Step 6 – Adding basic course material	11
Step 7 – Making your courses interactive	11
Step 8 – Evaluating your students	11
Step 9 – Making your course social	12
Step 10 – Adding collaborative activities	12
Step 11 – Managing and extending your courses	12
Step 12 – Taking the pulse of your course	13
Applying the Moodle philosophy	13
Adding static content	13
Interactive and social course material	14
Creating activities	14
The Moodle experience	15
The Moodle front page	15
Arriving at the site	15
Using moodlecloud.com	17
The main menu	18
Blocks	18
The site description	19
Available courses	19
Inside a course	21
The navigation bar	21
Blocks	22
The navigation block	22
Sections	22
Joining a discussion	24
Completing a lesson	24
Editing mode	25
Normal mode versus editing mode	26
The Edit icon	26
The Delete icon	27

The Hidden/Shown icons	28
The Group icons	28
Resources and activities	28
Adding resources and activities	28
The administration menu	31
The Moodle architecture	32
The Moodle application directory	33
The Moodle data directory	33
The Moodle database	34
Summary	34
Chapter 2: Installing Moodle	35
Installation step 1 – Requirements	35
Hardware	36
Disk space	36
Bandwidth and data transfer limits	36
Memory	37
Ensuring minimum prerequisites	37
Installation step 2 – Subdomain or subdirectory?	38
Installation step 3 – Getting and unpacking Moodle	39
Choosing a Moodle version	39
The quick way – Upload and unzip	40
Uploading and decompressing the ZIP file on the server	40
Installation step 4 – Creating an empty database	40
Installation step 5 – Creating the (moodledata) data directory	41
Creating the database	42
Installation step 6 – Installing Moodle	42
Web-based installer	43
Installation step 7 – Final configuration	44
MoodleCloud basics	44
Getting started with MoodleCloud	45
MoodleCloud options	45
Summary	47
Chapter 3: Configuring Your Site	49
Being mindful of user experience	50
On-premise versus MoodleCloud	52
Preparing to experiment	52
Creating test accounts	53
Installing several browsers	56
Exploring the site administration menu	57
Configuring authentication methods	59
Manual accounts and no login methods	60
Manually creating a new user	60
Suspending a user's account	60
Enabling email-based self-registration	61

Authenticating against an external source	63
Connecting to an external database or server	63
What happens when users are deleted from the external database?	64
What happens when usernames are changed in the external database?	65
Granting access to courses with enrollment choices	66
Name	67
Instances/enrollments	67
Enable	69
Up/down	69
Settings	69
Manual enrollments	69
Manually enrolling a student in a course	69
Guest access	71
Enabling Guest access for a course	72
Self enrolment	73
Cohort sync	74
Creating a cohort	74
Adding users to a cohort	74
Adding a user from the cohort page	75
Adding a student using the bulk action method	76
Enrolling a cohort in a course	76
Category enrollments	77
The flat file	77
The file	77
Student ID number required	78
Course ID required	80
Role	81
Summary of flat files	82
IMS Enterprise file	82
LDAP	83
External database	83
External database connection	84
Local field mappings	84
Remote enrolment sync and creation of new courses	86
PayPal	86
Mnet remote enrollments (formerly Moodle networking)	86
Language	87
About language files	89
Installing and enabling additional languages	91
Installing additional languages	91
Configuring the language	92
Sitewide locale	93
Excel encoding	93
Offering courses in multiple languages	94
Security settings	94
The IP blocker – Limiting access to specific locations	95
Site policies	95
Protect usernames	95
Forcing users to log in	96
Forcing users to log in for profiles	97
Open to Google	97
Maximum uploaded file size	98

Table of Contents

	Changing the limit on uploaded file size in PHP	99
	Changing the limit on uploaded file size in Apache	100
	Allowing embed and object tags	100
	HTTP security	102
	Using HTTPS for logins	102
	Running Moodle entirely from HTTPS	103
	Filters	103
	Activity names and glossary auto-linking filters	104
	Math filters	104
	Email protection filter	105
	Multimedia plugins	105
	Multi-language content	105
	Word censorship	105
	HTML tidy	106
	Configuring the front page	106
	How to use this section	106
	Front page settings page	107
	Full site name	107
	Front page items	108
	Using a topic section on the front page	109
	Show news items	109
	Backup	110
	Setting up the cron job	110
	Summary	111
Chapter 4: Creating Categories and Courses		113
	Planning based on your institution's mission and vision	114
	Using course categories and the user experience	115
	Displaying courses and categories on your front page	115
	Displaying an uncategorized list of courses on your front page	118
	Choosing the best option for your front page	119
	Creating course categories	120
	Rearranging course categories	122
	Creating courses	124
	Creating a new and blank course	124
	Enrolling teachers and students	136
	Assigning teachers	136
	How to set enrollment methods	137
	Handling course requests	140
	Enabling course requests	140
	Getting notified about course requests	140
	How to request a new course (teachers and students)	142
	Summary	143
Chapter 5: Resources, Activities, and Conditional Access		145
	Mapping your approach	146
	Identifying course goals and learning objectives	146
	Settings that are common to all resources and activities	147
	Adding a resource or activity	148

Entering the name and description	148
Showing and hiding a resource or an activity	150
Setting the availability of a resource or an activity	150
Using the visibility setting to show or hide a resource	151
Using the ID number to include a resource in the grade book	151
Restricting access	152
Summary of the process to use completion conditions	153
Creating the activities and resources that need to be completed	153
Creating the activity completion settings	154
Creating the activities or resources that will be restricted	156
Setting the competency conditions	156
Allowing students to see the activity or resource before they can access it	157
Rearrange/move items on the course home page	158
Summary	160
Chapter 6: Adding Resources	161
Tying resources to course outcomes	161
Adding different kinds of resources	162
Adding URLs	163
Display options – Embed, Open, and In pop-up	163
Embed	164
Open	164
In pop-up	166
Adding pages	168
Adding a page to your course	168
Adding images	170
Inserting an image file	170
Inserting a hot-linked picture into a Moodle page	172
Pasting text	173
Stripping out the formatting – Pasting plain text	174
Pasting text from Microsoft Word	174
Composing in an HTML editor and uploading to Moodle	175
Learn more about HTML	176
Adding files for your students to download	176
When a student selects a file from the course	176
File repositories	177
Types of repositories	177
Using file-sharing services to collaborate	178
Using repositories to overcome Moodle's limit on file sizes	178
Enabling the filesystem repository	179
Creating the directory for the filesystem repository	180
Uploading files to the filesystem repository	181
Creating the filesystem repository in your course	182
Adding media – Video and audio	187
Adding video or audio to a page	187
Organizing your course	191
Name your topics	192

Rearrange/move items on the course home page	193
Giving directions and organization with labels	194
Summary	195
Chapter 7: Adding Assignments, Lessons, Feedback, and Choices	197
Instructional strategy	198
Learning objectives	198
Competency learning definitions	200
Definitions	200
Selecting assignments	201
Understanding assignments	202
What you can do with an assignment	202
Types of work students can submit	202
Submitting a digital file	203
Requiring students to submit online text	204
Submitting work done in the real world	205
Submitting an assignment from the student's perspective	206
Grading an assignment	207
Receiving a grade for an assignment	210
Allowing a student to resubmit an assignment	211
Adding an assignment	212
Availability	213
Submission types	214
Feedback types	215
Submission settings	216
Group submission settings	218
Notifications	218
Printer-friendly directions	219
Indicating that assignments are mandatory	219
Lesson	220
Definition of a lesson	220
Example of a simple lesson with remedial page jump	221
Types of lesson pages	224
Content pages	224
Cluster with questions	226
End of branch	228
Planning, creating pages, and adding content	228
Configuring lesson settings	228
General settings	229
Appearance	229
File popup	229
Display ongoing score	230
Display left menu and minimum grade to display menu	230
Maximum number of answers	231
Use default feedback	231
Link to next activity	231
Prerequisite lesson	231
The flow control	232

Allow student review	232
Provide option to try a question again	232
Maximum number of attempts	232
Number of pages to show	232
Grade	233
The Practice lesson	233
Custom scoring	233
Handling of retakes	233
Minimum number of questions	234
Adding the first lesson page	234
Importing questions	234
Adding a content page	235
Adding a cluster	236
Adding a question page	236
Creating a question page	236
Page Title	237
Page Contents	238
Answers	238
Responses	238
Jumps	238
This Page	238
Next or Previous Page	238
Specific Pages	238
Unseen question within a cluster	239
Random question within a content page	239
Creating pages and assigning jumps	240
The flow of pages	240
Editing the lesson	241
Collapsed and expanded	241
Rearranging pages	242
Editing pages	242
Adding pages	242
Feedback	242
Feedback isn't just for students	242
Creating a feedback activity	243
Question types	245
Adding a page break	246
Avoiding bots with captcha	246
Inserting information	246
Adding a label	246
Creating a textbox for a longer text answer	246
Displaying multiple-choice questions	247
Creating multiple-choice questions	248
The numeric answer	249
The short-text answer	249
Viewing feedback	250
Seeing individual responses	250
Analyzing responses with the Analysis tab	251
Choice	252
The student's point of view	252
The teacher's point of view	253

Limit	253
Display Mode	253
Publish results	253
Privacy of results	254
Allowing students to change their minds	254
Summary	254
Chapter 8: Evaluating Students with Quizzes	257
Developing graded assignments using quizzes	257
Question banks	258
Configuring quiz settings	259
General	259
Timing	260
Grade	261
Layout	261
The question behavior	262
Adaptive mode	262
Interactive with multiple tries	263
Immediate feedback	263
Deferred feedback	263
Each attempt builds on the last	264
Review options	264
Appearance	265
Extra restrictions on attempts	266
Techniques for greater security	266
The overall feedback	267
Common module settings	268
Adding questions to a quiz	269
Adding questions to the Question bank	269
Moving questions between categories	271
Managing the proliferation of questions and categories	271
Creating and editing question categories	271
Creating a question	272
Question types	276
Adding feedback to a question	278
Types of feedback for a question	279
Feedback for individual responses	280
Feedback for a numeric question	283
Adding the existing questions from the question bank	284
Adding random questions to a quiz	286
Maximum grade	287
Grade for each question	287
Changing the order of questions	288
Preventing glossary auto-linking in quiz questions	289
Preventing an open book quiz	289
Mastery learning	289
Competency Frameworks	290
Certificates	290
Badges	290
Summary	291

Chapter 9: Getting Social with Chats and Forums	293
A forum-based instructional strategy	293
Learning from one another	294
The Chat module	294
The chat settings page	297
The name of this chat room	298
Description	298
The next chat time and repeat/publish sessions	299
Saving past sessions – Past sessions and everyone can view past sessions	299
Preventing students from seeing one another's chats	300
Creating and running forums	300
Forum-based content delivery	301
Forum-based assignments	301
Forum-based peer review	301
Forum-based review and link to assessments	302
General purpose forum	302
Using the news forum to send notifications	303
Multiple forums	303
Forum settings	303
General settings	304
The forum name	304
The forum description	304
The forum type	304
The maximum attachment size	305
The maximum number of attachments	305
The display word count	305
The subscription mode	305
Read tracking	306
Post threshold to block settings	306
Ratings	306
Summary	308
Chapter 10: Collaborating with Wikis and Glossaries	309
Using collaboration as an instructional strategy	309
Glossary	310
Enabling glossaries and auto-linking	311
Enabling glossaries for your site	311
Enabling auto-linking	312
Enabling auto-linking for the site	312
Enabling auto-linking for the course	312
Enabling auto-linking for the activity or resource	313
Adding and configuring a glossary	313
The global glossary versus local glossary	314
The main glossary versus secondary glossary	314
Entries approved by default	315
Always allow editing and Duplicate entries allowed	315
Allowing comments	316
Automatically linking glossary entries	316

Appearance settings	316
Enabling ratings	317
Adding glossary entries	320
Importing and exporting entries	322
Wiki	322
Using a wiki for student contributions and explanations of a topic	323
Using a wiki to create a list of judging criteria for evaluating a competition	323
Planning collaborative projects – Using the wiki type and groups mode to determine who can edit a wiki	324
Event planning	324
Business plan for a start-up	324
Using the wiki type and groups mode to determine who can edit a wiki	325
The first-page name	325
The Default format	326
Summary	327
Chapter 11: Running a Workshop	329
Why use a workshop?	329
When are group project-based workshops best?	330
Workshop strategies	330
Peer assessment of submissions	331
The timing of submissions and assessments	331
The four questions	331
The four phases	332
The setup phase – The edit settings page	332
Name and description	333
Grading settings	333
The grading strategy	334
The Submission settings	336
Assessment settings	337
Feedback settings	338
Example submissions settings	339
Availability settings	339
The edit assessment form page	340
Adding an example to the workshop	342
The submission phase – Students submit their work	345
Allocating submissions	347
The assessment phase	347
The grading evaluation phase	347
The closed phase	347
Summary	348
Chapter 12: Groups and Cohorts	349
Groups versus cohorts	349
Cohorts	350
Creating a cohort	350
Adding students to a cohort	350

Manually adding and removing students to a cohort	350
Adding students to a cohort in bulk – Upload	351
Cohort sync	355
Enabling the cohort sync enrollment method	356
Adding the cohort sync enrollment method to a course	356
Unenroll a cohort from a course	357
Differences between cohort sync and enrolling a cohort	357
Managing students with groups	358
Course versus activity	359
The three group modes	359
Creating a group	360
Manually creating and populating a group	360
Automatically creating and populating a group	362
Importing groups	363
Summary	364
Chapter 13: Extending Your Course by Adding Blocks	365
Defining a block	365
Uses of blocks	366
Examples of blocks in action	366
Configuring where a block appears	367
Standard blocks	371
The Activities block	371
The Blog menu block	373
The Blog tags block	373
The CALENDAR block	374
The comments block	375
The Course completion block	376
Course/site summary	376
The Courses block	376
The FEEDBACK block	376
The HTML block	378
The Latest News block	378
The Logged in user block	379
The Messages block	379
The My latest badges block	379
The My private files block	380
The Online users block	380
The quiz results block	380
The Random glossary entry block	381
The recent activity block	382
The Remote RSS feeds block	382
The Search Forums block	383
Section links	383
The Upcoming Events block	383
Summary	384

Chapter 14: Features for Teachers	385
Logs and reports	385
Viewing course logs	386
Viewing live logs	388
Viewing activity reports	388
The participation report	390
Using activity tracking	391
Viewing grades	392
Categorizing grades	394
Viewing grade categories	394
Creating grade categories	395
To create a grade category	395
To assign an item to a grade category	395
Using extra credit	396
Weighting a category	397
Compensating for a difficult category	398
Summary	400
Other Books You May Enjoy	401
Index	405