

# PROFESSIONAL TRAINING COURSE



## 4 Days Course on Developing Web Applications with Ruby on Rails



### Two Sigma Technologies

Suite B, 19-2, Jalan PGN 1A/1, Pinggiran Batu Caves,  
68100 Batu Caves, Selangor  
Tel : 03-61880601/Fax :03-61880602  
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## Course Overview

Ruby on Rails course describes how to write database-backed Web Applications using the Ruby on Rails (also pronounced RoR, or Rails) Framework. In this Ruby on Rails 4 days training course, students are taken through the various steps of creating a full-fledged Web Application and this course provides a solid foundation in Ruby as well as Rails. Students are taken through the various steps of creating a full-fledged Web Application. Students will learn to create database-driven websites using Ruby on Rails either static or dynamic pages. They will learn to install Ruby and Rails, to program in Ruby and on Rails applications.

## Benefits of Attendance

Upon completion of this course, students will be able to:

- Download and install Rails along with various other products that allow one to write Rails applications
- Understand the Model, View, Controller paradigm and how this applies to Rails applications
- Understand the directory structure of a Rails application
- Build non-trivial database backed Web Applications
- Understand the ActiveRecord classes and how they wrap database tables
- Understand the interplay between various controller actions and .erb (embedded Ruby) files
- Understand the Create, Read, Update, and Destroy (CRUD) paradigm
- Validate Model data
- Use the Rails console to debug applications

## Prerequisites

Have knowledge and/or experience in HTML,CSS, SQL,PHP and JavaScript programming.

## Course Settings

Date	Refer to Training Calendar
Venue	Refer to Training Calendar
Fees	Contact Us at sales@2-sigma.com
Timings	0900-1700 (4 Days)
Inclusive	Certificates and notes
Audience	IT Officer, Web Application Developer and Programmer

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## Ruby On Rails -Schedule

Day 1	
09.00am – 10.00am	<b>An Overview Of Ruby on Rails</b> <ul style="list-style-type: none"> <li>• What is Ruby on Rails?</li> <li>• Overview of Rails Components</li> <li>• Installing Rails</li> <li>• A Simple Rails Application</li> <li>• Starting the Rails Server</li> </ul>
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	<ul style="list-style-type: none"> <li>• Static Pages Within a Rails Application</li> <li>• The Structure of a Rails Application</li> <li>• Generating a Controller</li> <li>• Rendering the View</li> <li>• Adding a Static Page</li> <li>• Dynamic Pages with Embedded Ruby</li> <li>• Using the render Method</li> <li>• Using the link_to Method</li> </ul>
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	<b>Rails and HTML Forms</b> <ul style="list-style-type: none"> <li>• A Basic HTML Form</li> <li>• Processing an HTML Form</li> <li>• Working With Form Data</li> <li>• Other Form Elements</li> <li>• Form Tag Helpers</li> </ul>
Day 2	
09.00am – 10.00am	<b>Databases and Rails</b> <ul style="list-style-type: none"> <li>• Review of the MVC Architecture</li> <li>• Entities and Relationships</li> <li>• Databases and Models</li> <li>• Rails Database Conventions</li> </ul>
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	<ul style="list-style-type: none"> <li>• Adding a Model</li> <li>• Database Migrations</li> <li>• The Rails Database Console</li> <li>• Creating a Rails View of a Database Table</li> <li>• Scaffolding</li> <li>• RESTful Routes and Resources</li> </ul>
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	<b>Form Helpers and Validation</b> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Form Helpers and form_for</li> </ul>

	<ul style="list-style-type: none"> <li>• Processing Form Helpers</li> <li>• From Form to Database</li> <li>• Redirection</li> <li>• Data Validation</li> </ul>
<b>Day 3</b>	
09.00am – 10.00am	<ul style="list-style-type: none"> <li>• Validation Helpers</li> <li>• The presence Validator</li> <li>• The numericality Validator</li> <li>• The uniqueness Validator</li> <li>• The length Validator</li> <li>• The format Validator</li> </ul>
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	<ul style="list-style-type: none"> <li>• Custom Validation Methods</li> <li>• The errors Object</li> <li>• Displaying Validation Errors in the View</li> </ul> <p><b>Adding Style to an Application</b></p> <ul style="list-style-type: none"> <li>• Styling</li> <li>• Rails and Sass</li> <li>• Cascading Style Sheets</li> </ul>
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	<p><b>Users</b></p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Configuring an Application for Sessions</li> <li>• Registering Users</li> <li>• The Register Action</li> </ul>
<b>Day 4</b>	
09.00am – 10.00am	<ul style="list-style-type: none"> <li>• The flash Hash</li> <li>• Validating the Registration</li> <li>• Logging in</li> <li>• Logging Out</li> <li>• Protected Pages</li> <li>• Filters</li> </ul>
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	<p><b>Putting it All Together</b></p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• The Business Application</li> <li>• Database Terminology</li> <li>• Linking Two Models</li> <li>• Adding Tasks</li> <li>• The Database Tables</li> </ul>
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	<ul style="list-style-type: none"> <li>• Displaying Employee Tasks</li> </ul>



- Deleting a Task
- Listing Employees and Tasks
- Migrations
- Editing a Record
- Summary

### More Information

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To register, please email to [sales@2-sigma.com](mailto:sales@2-sigma.com) or fax the registration form to 03-61880602, we will contact you for further action.

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