**C O U R S E O U T L I N E**



**2**



**DAYS**



**JS**

**1.7U55 +**

**www.elastic.co**  [**training@elastic.c**](mailto:training%40elastic.co?subject=)**o**

CORE ELASTICSEARCH DEVELOPER

**Overview**

This training will guide you into an in-depth, instructor-led training course with case study discussions held by Elasticsearch developers.

**Objectives**

An interactive instructor-led course focused on learning

Elasticsearch fundamentals so that one can effectively design and build applications that leverage it. The course starts with an introduction to Elasticsearch and its API, and then moves into detailed learning on search, aggregations, and many other topics. Best practices and examples for document design, testing, and

other software development design considerations are also covered.

**Audience**

Developers and Architects who would like to build real-time search and analytics solutions.

**Duration**

2 Days Class is scheduled from 9 a.m. to 5 p.m.

**Pre-requisites**

Familiarity with programming concepts

**Requirements**

Laptop with at least 20% free disk and Java version 1.7u55 or newer



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Modules

**Why Elasticsearch**

* Topology and Clusters
* CRUD
* Index, Update, Re-index, and Delete documents
* Bulk Operations
* Lab

**Text Analysis**

* Analyzers - Tokenizers and Filters
* Character Filters
* Testing Analyzers
* Built-In Analyzers
* Synonym Handling
* Lab

**Mappings**

* CRUD and relationship to documents/indices
* Data Types
* Dynamic Field Mappings
* Index Templates
* Lab

**Queries and Filters**

* Distributed Search Fundamentals
* Query DSL Deep Dive
* Query Advice and Best Practices
* Lab

**Suggestions**

* Terms, Phrase, Completion, and Context Suggestors
* Best Practices
* Lab

**Aggregations**

* Fundamentals
* Deep dive of each aggregation
* Lab

**Document Modeling**

* Nested Objects and Documents
* Impact of document structure on search
* ElasticSearch.Net and Nest  - Net developers for  handling ES query
* Deployment in Production environment - In-depth analysis
* Monitoring ElasticSearch - Any monitoring tools/plugin like Marvel, ElasticsearchHQ
* Asynchronous CRUD operations
* How to create multiple nodes [primary, secondary, data, master]

**Advice and Best Practices**

* Relevancy and Scoring
* Fundamentals
* Boost and Function Lab

**Percolator and Notifications**

**Client Libraries and Testing**

**Case Studies**

