Elastic Certified Engineer Training

Day - 1

- **Installation and Configuration**
    o Deploy and start an Elasticsearch cluster that satisfies a given set of requirements
    o Configure the nodes of a cluster to satisfy a given set of requirements
    o Secure a cluster using Elasticsearch Security
    o Define role-based access control using Elasticsearch Security

- **Indexing Data**
    o Define an index that satisfies a given set of requirements
    o Perform index, create, read, update, and delete operations on the documents of an index
    o Define and use index aliases
    o Define and use an index template for a given pattern that satisfies a given set of requirements
    o Define and use a dynamic template that satisfies a given set of requirements
    o Use the Reindex API and Update by Query API to reindex and/or update documents
    o Define and use an ingest pipeline that satisfies a given set of requirements, including the use of Painless to modify documents

- **Queries**
    o Write and execute a search query for terms and/or phrases in one or more fields of an index
    o Write and execute a search query that is a Boolean combination of multiple queries and filters
    o Highlight the search terms in the response of a query
    o Sort the results of a query by a given set of requirements
    o Implement pagination of the results of a search query
    o Apply fuzzy matching to a query
    o Define and use a search template
    o Write and execute a query that searches across multiple clusters

- **Aggregations**

Day - 2

- **Mappings and Text Analysis**
  - Define a mapping that satisfies a given set of requirements
  - Define and use a custom analyzer that satisfies a given set of requirements
  - Define and use multi-fields with different data types and/or analyzers
  - Configure an index so that it properly maintains the relationships of nested arrays of objects

- **Cluster Administration**
  - Allocate the shards of an index to specific nodes based on a given set of requirements
  - Configure shard allocation awareness and forced awareness for an index
  - Diagnose shard issues and repair a cluster's health
  - Backup and restore a cluster and/or specific indices
  - Configure a cluster for use with a hot/warm architecture
  - Configure a cluster for cross cluster search