



Expression of Interest (EOI)
On
Full Stack Developer course with Specialization in
Cloud Computing

From
*AICTE approved institutions, professional bodies and competent
training institutes*

Chief Manager- EDP & EDC
ITI Limited
Sultanpur Road, Doorbhash Nagar
Raebareli, U.P. 229010

REF NO.: X/COMPT/UPSKILLING/HR/EDP/EOI/01

DATE: 07-07-2022

Pranali
07-07-22
AEE (EDP)

Expression of Interest

To provide training with practical skill and knowledge on Full Stack Developer course with Specialization in Cloud Computing from AICTE approved institutions, professional bodies and competent training institutes.

ITI Limited, Raebareli EDP department needs to upskill its Human resource by providing Training on above said training program for the period of 10- 12 months from AICTE approved institutions, professional bodies and competent training institutes with proven track record in the IT certification by offline /online means which are meeting the specified curriculum to impart the said training programs.

Interested organizations may send their financial offer along with curriculum for the above training program in a sealed envelope super scribed on the top of envelope "Quotation for providing training on Full Stack Developer course with Specialization in Cloud Computing" on or before 27/07/2022 (up to 5:00PM), on all working days.

Chief Manager - EDP & EDC

ITI Limited

Sultanpur Road, Doorbhash Nagar

Raebareli U.P. 229010

The EOI documents can be downloaded directly from our web site: www.itilttd.in and www.eprocure.gov.in.

Sl. No	Description	Information
1	Reference No. of EOI document	X/COMPT/UPSKILLING/HR/EDP/EOI/01 Dated 07-07-2022
2	Availability of EOI document	From 07/07/2022 to 27/07/2022 (up to 17:00 hrs) The EOI document can be downloaded from ITI website www.itilttd.in and www.eprocure.gov.in
4	Last date & time for submission of bids	Date: 27/07/2022 Up to 17:00 Hrs.
6	Opening of Financial Bids	Date: 28/07/2022 after 10:00 Hrs.
9	Contact Person for queries (between 10AM to 15.30 hrs on working days only)	CM (EDP & EDC) ITI Limited Doorbhash Nagar, Raebareli, U.P 229010 Phone: 9140799407/8884008020 E-mail: chamanlal_rbl@itilttd.co.in
10	Address for Bid Submission	O/o CM-EDP & EDC, ITI Limited, Doorbhash Nagar, Raebareli, U.P 229010
11	Validity	The bids submitted shall remain valid for a period of 60 days from the date of opening the Technical bid.

Handwritten:
07-07-22
AEE (EDP)

The tentative curriculum should confirm as follows:

BACK END SOFTWARE DEVELOPMENT

OBJECT-ORIENTED PROGRAMMING

- Object-Oriented Paradigms of Java Programming (Classes, Objects etc.)
- Object-Oriented Design
- Exception Handling, Collections, Concurrency, etc.

DATA STRUCTURES

- Linear Data Structures (Arrays, Strings, Stacks, Queues, Linked Lists, etc.)
- Binary Trees and Binary Search Trees, Tree traversals

ALGORITHMS

- Basic Algorithms: Recursion, Searching and Sorting Algorithms, Greedy Algorithms
- Analysis of Algorithms and Evaluating the right algorithm for a problem
- Self Study : Advanced algorithms – Graphs, Dynamic Programming, Hashing Algorithms

DATABASE DESIGN & SYSTEMS

- Processing, Storing & Organizing Data: Data Models,
- Tables, Views, SQL Queries - Simple & Complex
- Database Schemas, Normalization, Keys, Indexes
- JDBC
- Introduction to NoSQL databases

SERVER-SIDE DEVELOPMENT & FRAMEWORKS

- Spring MVC Architecture
- Backend Development Using Springboot Framework
- ORM & Hibernate
- REST APIs

FRONT END SOFTWARE DEVELOPMENT

FRONT-END DEVELOPMENT – HTML & CSS

- HTML & CSS Interaction, CSS : Styling, Selectors, Box Model, Border, Margin, Padding, etc

FRONT-END DEVELOPMENT – JAVASCRIPT

- JavaScript Fundamentals, Hoisting, Callbacks, Promises, Asynchronous JavaScript, DOM Manipulation, JSON, AJAX Calls, Communication with Server, Event Listeners, Local and Session Storage etc.
- Advanced JavaScript –ES6, Let & Const, Arrow Functions, Array Destructuring, Async/Await, Babel, Web pack, etc

JAVASCRIPT FRAMEWORKS – REACT

- React Introduction, React Router, Components and Single Page Applications
- React Forms, Flow Architecture
- Redux & Client-Server Communication, etc

SPECIALIZATION IN CLOUD COMPUTING

LINUX ESSENTIALS

- Linux OS
- File Structure
- Command Line Ops
- Linux Distros & Usage
- Basic Shell Scripting

PYTHON ESSENTIALS

- Language Basics
- Python Scripting
- Using AWS Python SDK

CLOUD FOUNDATIONS

- Service Models
- Deployment Models
- Virtual Machines vs Containers
- Why Cloud
- Traditional vs Cloud Infra
- Cloud Platforms

CONTAINERS

- Container Basics
- System Containers (LXD)
- Application Containers (Docker)
- Container Orchestration & Management

AWS CORE

- AWS Organization & IAM
- Compute
- Storage
- Network

AWS ADVANCED

- Database Services (RDS, Dynamo DB)
- PaaS - Elastic Bean Stalk
- CaaS - Elastic Container Service
- Monitoring & Logging - AWS Cloud Watch, Cloud Trail
- Notifications - SNS, SES
- Billing & Account Management

DEVOPS ON AWS

- Continuous Integration and Continuous Deployment
- Deployment Pipeline(e.g. AWS Code Pipeline, Code Commit, Code Build, Code Deploy)
- Plan, Build, Deploy and Monitor (Cloud Formation)
- Infrastructure as Code (Terra form, Cloud Formation)

Eligibility Criteria:

AICTE approved institutions, professional bodies and competent training institutes with proven track record in the IT certification by offline /online means which are meeting the specified curriculum to impart the said training programs are eligible to apply.

Payment Terms:

50 % of the payment shall be released immediately against the invoice provided by training organization and rest of the payment i.e. 50% will be made after completion of the training.

Special Terms and Conditions:

1. Interested institutions should submit a letter of interest along with their curriculum details for conducting the courses mentioned above.
2. The information of curriculum and fee structure provided should be sufficient to verify that all the criteria are fulfilled as per the requirements to carry out the training.
3. The selection/empanelment will be in accordance with the criteria set by ITI LTD. Raebareli.
4. The short-listed/empanelled institutions will be communicated and on agreeing the terms shall be invited to provide training by signing the MoU.
5. Institutions having prior experience in implementing similar training programs will be given preference.
6. ITI Ltd. Raebareli will have the right to reject any or all EOIs, received in response to this invitation and its decision in this regard shall be final and binding.
7. ITI Limited, Raebareli reserves the right to make changes/modifications in the EOI document/terms and conditions and the bidder is required to abide by the decision of the ITI Limited Raebareli management.

Ravi Kant Maurya
07-07-22

Ravi Kant Maurya
AEE (EDP)

Contact: 8884008020

Landline: 0535-2702015

ITI LTD Raebareli

PIN- 229010