

नेशनल इंस्टीट्यूट ऑफ इलेक्ट्रॉनिक्स एंड इंफॉर्मेशन टेक्नोलॉजी, चेन्नई

National Institute of Electronics and Information Technology, Chennai

Autonomous Scientific Society of Ministry of Electronics & Information Technology (MeitY), Govt. of India

ISTE Complex, 25, Gandhi Mandapam Road, Chennai - 600025

Course Prospectus

Certificate Course in Linux

Containers

Mode: ONLINE (Blended)



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NIELIT

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Course Prospectus

Name of the Group: ISM

Course Name: Certification course in Linux Containers

Course Code: IS901

Duration: 80 Hours, 8 Weeks

Last Date of Registration: 10-11-2021

Display of Provisional Selection List: 11-11-2021

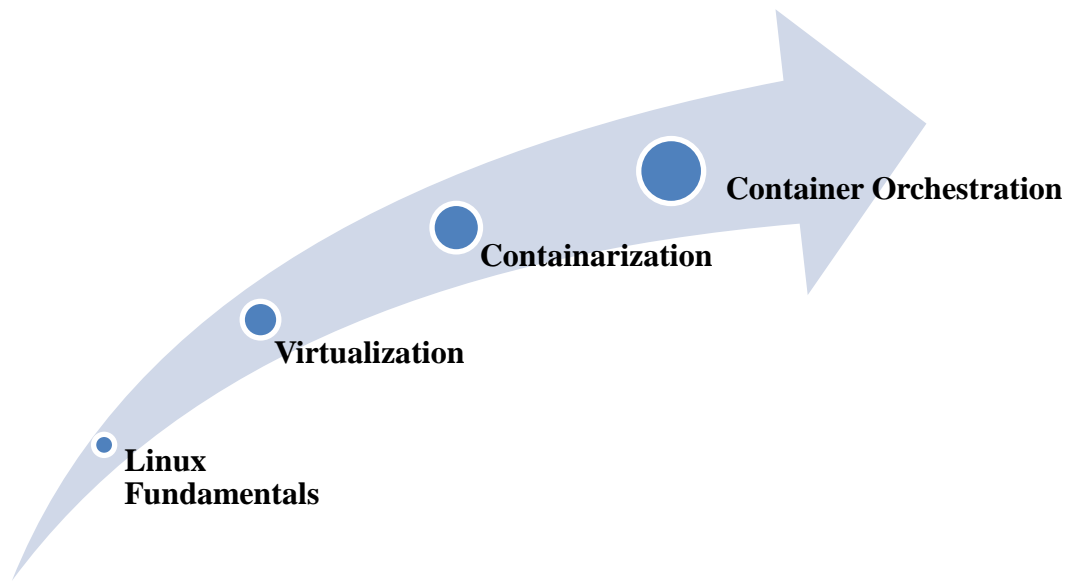
Course Start Date: 15-11-2021

Preamble: Containers are often compared to virtual machines (VMs) because both technologies enable significant compute efficiencies by allowing multiple types of software (Linux- or Windows-based) to be run in a single environment. However, container technology is proving to deliver significant benefits over and above those of virtualization and is quickly becoming the technology favoured by IT professionals. Docker container technology leveraged existing computing concepts around containers and specifically in the Linux world, primitives known as cgroups and namespaces. Docker's technology is unique because it focuses on the requirements of developers and systems operators to separate application dependencies from infrastructure.

Objective of the Course: The Course is 80 Hrs. (8 Weeks) program aimed at moulding candidates to Skilled System Engineer Expert with Docker Container Services knowledge to maintain the Systems, Networks and Infrastructure in today's scenario.

Outcome of the Course: This skill-oriented course provides candidates with information required for configure and administration of OS Server, Container Deployment and equip them with the skills required to protect & manage services in containerized environment.

Full Flow of Course:



Course Structure: This course contains total four modules. After successful completion of the four modules, the candidates will be awarded certification.

IS 901	Module Name	Duration (in Weeks)
1.	Linux Server Administration and Virtualization Fundamentals	3 Weeks
2.	Linux Containers	3 Weeks
3.	Container Orchestration	2 Weeks
Total Duration		8 Weeks

Course Contents:

1. Linux Server Administration and Virtualization Fundamentals

- Linux Fundamentals
- Advanced Linux Server
- Introduction to Virtualization
- Virtualization with KVM

2. Linux Containers

- Introduction to Linux Containers
- Docker Fundamentals
- Managing Containers
- Managing Images
- Images with Dockerfile
- Docker Volumes
- Docker Compose
- Docker Networking and Registry

3. Container Orchestration

- Overview of Container Orchestration
- Docker Swarm
- Introduction to Kubernetes
- Pods and Managing nodes
- Kubernetes Volumes
- Kubernetes Monitoring

Course Fees:

Course fee is Rs. 3500/- + GST as applicable

**GST is Applicable as per Govt. Norms GST (currently it is 18%).*

However, the above Course fee shall be refunded on few special cases as given below

- ✓ Course postponed and new date is not convenient for the student.
- ✓ Course cancelled.

Eligibility:

- ✓ B.Sc (Computer Science/Electronics)/BCA/B.E/B.Tech/ or any degree with PGDCA.

Number of Seats: 100 (One Hundred) - Total

How to Apply

Candidates can apply online in our website <http://reg.nielitchennai.edu.in>. Payment towards non-refundable registration fee can be paid through any of the following modes:

- ✓ Online transaction: Account No: 31185720641 Branch: Kottur (Chennai), IFSC Code: SBIN0001669.

Note: *The Institute will not be responsible for any mistakes done by either the bank concerned or by the depositor while remitting the amount into our account*

Last date of Registration: 10th November, 2021

Registration Procedure

All interested candidates are required to fill the Registration form online with Course fees before 10th November, 2021 with all the necessary information.

Selection Criteria of candidates

The selection to the course shall be based on the following criteria:

Selection of candidates will be based on their marks in the qualifying examination subject to eligibility and availability of seats.

- ✓ The first list of Provisionally Selected Candidates will be published on NIELIT Chennai website (www.nielit.gov.in/chennai) on 11-11-2021 by 5:00 PM. In case of vacancy, an additional selection list will be prepared and the selection will be intimated by email only.
- ✓ Provisionally selected candidate has to upload their documents on registration portal for online verification.

Admission: All provisionally selected candidates whose documents are verified and paid the fees and verified by accounts section of NIELIT Chennai will get a welcome message in his login id provided during registration. The credential and url for online portal will be shared through WhatsApp or email.

Discontinuing the course

- ✓ No fees under any circumstances, shall be refunded in the event of a student who have completed the process of admission or discontinuing the course in between. No certificate shall be issued for the classes attended.

Course Timings: This program is a practical oriented one and hence there shall be more lab than theory classes. The classes are online cloud based from 9.30 am to 5:30 pm and Monday to Friday.

Address:

National of Electronics and Information Technology
ISTE Complex, No. 25, Gandhi Mandapam Road, Chennai – 600025
E-mail: trng.chennai@nielit.gov.in/Phone: 044-24421445
Contact Person: Yatish Kumar Appu .P, Mobile: 9841535405

Course enquiries

Students can enquire about the various courses either on telephone or by personal contact between 9.15 A.M. to 5.15 P.M. (Lunch time 1.00 pm to 1.30 pm) Monday to Friday.

Placement: Placement assistance is provided to students who qualify our courses.

Important Dates

- **Last Date of Registration: 10-11-2021**
- **Display of Provisional Selection List: 11-11-2021**
- **Course Start Date: 15-11-2021**

Certification

- ✓ Certification Body: Examination Section, NIELIT Chennai
- ✓ Certificates will be issued after successful completion of all the modules.

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