

## Frequently Asked Questions

1. What is CFD?  
CFD stands for "Computational Fluid Dynamics". In CFD any physical phenomena involving fluids is stated with a set of mathematical equations. These equations are then solved help of software on fast computers.
2. Why use CFD?  
Engineering problems, equipment or process design and modifications can first be tested with computer simulations before investing time and money in expensive prototypes and tests.
3. Who can benefit from CFD?  
All disciplines of engineering industry from automotive and aerospace to chemical and oil and gas benefit from Industry. CFD has been very popular with the automotive and aerospace industry from late eighties and early nineties. The usage of CFD has broken that image in the early 2000s and now encompasses all branches on engineering manufacturing involving fluid flow and heat transfer.
4. Benefits of doing CFD at SEED Infotech Ltd.  
For students
  - 100 % placement assistance
  - Best candidate will get opportunity to work with Tridiagonal Solutions Pvt. Ltd
  - Better chances of higher education in IITs and universities abroad
  - Course completion certificateFor Industry professionals:
  - Exposure to new and upcoming technology in engineering
  - Exposure to state of the art CFD software (FLUENT, Gambit)
  - Select candidates can get collaborative work with Tridiagonal which can be presented at national/international conferences
  - Course completion certificate
5. Duration of course  
Four classroom modules, hands-on sessions and a project totalling to 120 hours.
6. Course Fees – Rs.25000.  
  
Payment via Instalments option is also available
7. Scope for Placement – 100% Placement assistance provided.
8. Course Timings -  
Weekend - 9am to 4pm  
Weekdays - 7pm to 9pm
9. Structure of course  
Revisit fluid mechanics and heat transfer  
Derivation of Navier-stoke's equation  
Solution techniques – FDM, FEM and FVM  
Steps in CFD simulation  
Turbulence modeling and solution strategies  
Tips and tricks of using GAMBIT and FLUENT
10. Do you offer extra practice hours?  
Yes

11. CFD Tools taught?

GAMBIT  
FLUENT

12. What is a flow domain?

The region of the fluid along with appropriately defined boundaries, wherein the problem under investigation lies is referred as flow domain.

13. What is meshing?

The flow domain is split into series of small cells (mesh). Each cell stores properties and field variables of the fluid at that point.

14. Do you give any brief overview of CAD as I do not know either CAD or CFD?

We have started CAD course in association with Siemens.

15. Is it must to know CAD – CAM for learning CFD?

If a person knows it, then it is beneficial, but it is not a pre-requisite.

16. Brief on Tridiagonal Solutions Pvt. Ltd.?

Tridiagonal Solutions is a company formed by experts from national laboratory along with engineering software industry professionals. Tridiagonal is primarily providing consultancy services to international engineering manufacturing companies using CFD, Multi-scale and physical modelling techniques.

17. List of CFD companies?

ANSYS India Ltd.  
Flomerics India Pvt. Ltd.  
Emerson Climate Technologies (India) Limited  
KSB pumps Limited  
Kirloskar Brothers Limited  
Flomaster India Pvt. Ltd.  
Partial Derivative Pvt. Ltd  
Zeus Numerics  
CD-adapco  
And many more

For Further Details: Please visit our Branch or write to [cfid@seedinfotech.com](mailto:cfid@seedinfotech.com)