



SPEED LEARNING CENTRE

Be a "Design engineer", not just a "CAD engineer"!!!



INDUSTRY ORIENTED COURSES IN

PRODUCT

DESIGN & CAD

About Speed Engineering Solutions

- Speed Engineering is an **ISO9001:2015** certified organization having offices in **India, UK, and US**.
- Speed Engineering offers high-end engineering solutions and services in multiple domains including **Automotive, Aerospace, Industrial and Turbo-machinery products**.
- Speed Engineering's service portfolio includes **Product Design, Computer Aided Design and Drafting (CAD), Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD)** and niche services such as **Rotor Dynamics and Failure Investigations**.
- Speed Engineering also offers **Industry-oriented** intensive training courses for candidates aspiring to make a career in Design, FEA and CFD field.
- These comprehensive training courses are well structured to suit the needs of the industry and are imparted by **experienced professionals from the product design, development, and simulation field**.

Product Design and CAD Courses

Course Code	Course Name	Software	Duration (Weeks)
SLC-001	Product Design – Basic and Advanced	Creo, Solidworks or NX	14
SLC-002	Product Design – Advanced <i>(admission to this course subject to qualifying CAD tool test)</i>	Creo, Solidworks or NX	10
SLC-003	Product Design and Finite Element Analysis (FEA)	Creo, Solidworks or NX + ANSYS	16
SLC-004	Product Design and Manufacturing	Creo, Solidworks or NX	20

Product Design

- New Product Design and Development (NPD) Process
- Design for Manufacturing (DFM), Design for Assembly (DFA) and Design for Serviceability
- Design Failure Mode Effect Analysis (DFMEA)
- Application of Geometric Dimensioning and Tolerancing (GD&T)

Engineering Fundamentals

- Engineering Mechanics
- Strength of Materials
- Vibrations
- Fluid Mechanics
- Heat Transfer
- Thermodynamics

Manufacturing Process

- Casting
- Plastic
- Sheetmetal
- Fabrication
- Additive manufacturing
- Hands on exposure to handle machines like CNC, VMC, Grinding, Welding, Drilling *(for students opting for SLC-004 course)*
- Instruments and Measurements
- Sessions on manufacturing processes like Casting, Forging, Machining and Fabrication

Soft Skills

- Communication skills
- Presentation skills
- Email etiquettes
- Technical documentation skill

CAD

- 3D modelling and drafting of casting, machining, plastic, sheetmetal components
- Top down - bottom up assembly modeling and detailing, creation of bill of materials (BoM)
- Geometric dimensioning and tolerancing (GD&T), welding, machining symbol
- Mechanical engineering drawing reading practices
- Industry standard drafting practices and drawing templates
- 3D rendering in mechanical products
- Animation study to visualize actual working mechanical products
- Exposure to advance user defined features such as family tables, relations

Exposure to Industry Projects



Placement

- All courses have **Placement Assistance**.
- Placement is based on the performance of the student.

Course Eligibility

- Diploma / B.E. / B. Tech / M.E. / M. Tech (Mechanical / Production /Automotive or associated branches)
- Final year students undergoing Diploma / BE / ME / M. Tech in above streams.
- Working professionals interested in a design, development, and simulation field.

Student Testimonials



“Speed is the best platform to get a training which develops your design skills at entry level. It is a complete package of design, engineering fundamentals and soft skills. The growth I have seen in myself due to Speed, is invaluable. The course content is very much Industry oriented and at the end of the training you will be a project ready engineer.” - **Manish Chavan**



“I left my job to join this training program, and I must say that was the right decision. The course is designed meticulously to develop a command over Creo with exposure to live projects, which gives you an edge. After completing the training, I am now a Speed employee for past one year, with a lot of successful projects. Thank you Speed!” - **Omkar Unde**



“I had a fear of switching my career from production to design. The environment in Speed not only helped in gaining knowledge, but also in developing my overall personality. At Speed, I got to learn various aspects of design in a very easy manner. It also helped me to boost my confidence. Today, I am working at Speed on Indian and International projects.” - **Nikhil Mhaske**



Exposure to Industry Projects



Track Record Of 80%+ Job Placements on all courses



Unique blend of Design and Manufacturing



Syllabus created by Industry experts

Why Speed Learning Centre

- Comprehensive portfolio of courses that make you industry ready.
- Strong emphasis on hands-on learning and not just classroom trainings.
- Opportunity to interact and learn directly from accomplished industry professionals.
- Syllabus designed to give exposure to real-life components and systems.
- Learn design features by inspecting and handling physical parts.
- Get deep insights into the product design processes used in the industry.
- Exposure to live projects and industry standard modelling, drafting and simulation practices.
- Refresher on engineering fundamentals and its application to design and development process.
- More than 100 engineers trained till date are advancing in their professional careers using the strong skillsets acquired through our training courses.

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