Subject Experts

He is a mechanical Engineer graduated from NIT Kozhikode in 1977 and completed his post-graduation from University of Warwick, UK with honours in 1994. He has nearly 36 years in automotive product design. During his career, he had hands-on experience in designing and developing a wide variety of products for automotive brake systems, clutch system and door control systems. He has also led a team on engineers in the design and development of electromechanical products for Anti-Lock Brake Systems (ABS). During his career, he had led a large team of engineers in design teams and helped develop design processes, testing methods and analysis methods. His team of engineers have also developed several products for multinational OEMs.

After his retirement as site product development leader at WABCO India, he has worked as counsellor and mentor for ACMA new product clusters, improving their design processes for both product and process. He also works as an independent consultant for companies in product design process improvement.

Objectives

To provide clarity for design engineers about the role of parts in an assembly. Most of these concepts are applicable to higher levels of sub-system design also. In this course we intend to clarify the approach to design aspects of parts which affect the overall product assembly.

The areas covered are:
- Clarifying the needs of the mate functions in assembly
- Assuring relative position of parts
- Ensure details for proper relative movement of parts
- Ease of assembly
- Lower assembly time

Course Content

- Importance of parts design from assembly point of view
  a. Assure matching
  b. Define relative location
  c. Allow motion
  d. Isolate volume
- Failure modes in part design
  a. Inadequate constraining
  b. Wrong orientation
  c. Inadequate tolerancing
  d. Inadequate clearance
  e. Effect of temperature and mechanical deformations
- Designing for relative motion
  a. Degrees of freedom and defining motion
  b. Design features and part Tolerancing for defined motion

About the Course

Skilled designers are in short supply. Getting designers with right skills is difficult for companies. Design Black Belt certification foundation level is primary intended for part and sub assembly designers to develop the basic skill sets for error free design.

Design for assembly is the second module of this certification programme.
c. Protecting enclosed parts for environment

d. Design standards

e. Design methods for various product requirements

• Reduction of assembly time
  a. Part features that affect assembly and handling time
  b. Recommendations for assembly time calculation and reduction

Group project and test for knowledge certification

Benifits

• Enables designers to design parts understanding part function in assembly
• Enables part design with minimum errors
• Ensures quality aspects of mating parts for proper assembly and function
• Enables parts design with low cost and assembly time
• Enables basic skill-sets for parts designers to progress to sub-system designers and work effectively in design teams

Who should attend?

• Part design engineers
• Design team leaders
• Design functional managers

Mode of payment

Demand Draft / Cheque in favor of “SAEINDIA Southern Section”, payable at Chennai.
Account Name: SAEINDIA SOUTHERN SECTION
Account Number : 38517580801
Bank Name & Branch : State Bank of India, Kottur
MICR Number : 600002023
IFSC Code : SBIN0001669
PAN No : AABAS2734H

Registration fees

Rs. 13,000 + 18% GST per delegate for Non-SEAEINDIA Member
Rs. 10,000 + 18% GST per delegate for SAE INDIA Member
Rs. 4,000 + 18% GST per faculty Advisor

Venue

SAEINDIA Southern Section *
Block-1, Modules: 29 & 30, SIDCO Electronic Complex, Thiru-Vi-Ka Industrial Estate, Guindy, Chennai - 600032

*Subject to change based on registration

Applying for membership

Visit: www.saeiss.org

TOPTECH on
DESIGN FOR ASSEMBLY
6th and 7th March 2020
at
Chennai

We confirm the following will attend the above Seminar:

Name: ..........................................................
Designation: ..................................................
Company: ....................................................
Address: .....................................................

Email: ..........................................................
Signature: ..................................................

Please email/post the registration form duly filled, on or before 3rd March 2020 to:

Programme Executive
SAEINDIA Southern Section
Block-1, Modules: 29 & 30, SIDCO Electronic Complex, Thiru-Vi-Ka Industrial Estate, Guindy, Chennai - 600032
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