



PROGRAM SCHEDULE
Build & Beyond Workshops

11th Sept 2025 | HICC, Hitech City, Hyderabad

Time	Session Title	Speaker
9:30 AM - 11 AM	Evolution of NDT methods and techniques for assessment of material integrity across industrial applications & Welding & its applications. <i>The objective of this workshop is to create the awareness about Non-destructive testing methods and techniques to students for their career development towards NDT and quality division. This session will commence from the history and principle of basic NDT methods including its applications across various industries such as oil & gas, Power, chemical etc and it explores the appropriate NDT method and technique for inspecting various components with different configurations and materials. Pros and cons of conventional methods and evolving towards advanced techniques for enhancing the inspection capabilities and utilizing the imaging process. The transition of conventional NDT to Advanced methods specifically ultrasonic such as phased array ultrasonic testing (PAUT). Presently its techniques are immensely used for several applications and approved by recognised clients.</i> <i>Discussion on application of Welding is a joining conventional process that joining similar and dissimilar material by using heat and or pressure to produce a permanent joint. Its applicable in various industries like Oil and gas, petro chemical, refinery, automotive, aerospace, marine etc.</i>	SATHISH MURUGAN Manager-ANDT TWI INDIA PVT LTD
		Johnson Jayakumar Manager Welding TWI INDIA PVT LTD
2 PM - 3:30 PM	Bridging Theory and Application: CFD Workshop with Ansys for Career Advancement <i>Computational Fluid Dynamics (CFD) plays a pivotal role in advancing research, fostering innovation, and enhancing product performance across a wide range of industries — including aerospace, healthcare, automotive, construction, consumer goods, manufacturing, and defense. However, traditional CFD analysis has typically required deep CAE expertise, which can limit accessibility and complicate customization for specialized applications.</i> <i>In this workshop, we will explore the fundamental concepts of CFD and its real-world applications across various sectors. Attendees will gain valuable insights into simulation best practices, aimed at enhancing both accuracy and efficiency. The session will also cover recent advancements and share essential learning resources to support and accelerate your CFD learning journey.</i>	Abhimanyu Kumar Singh Technical Leader - Academic, Ansys India- ASEAN - Ansys
3:30 PM -4:30 PM	Need of Codes & Standards <i>This session will provide an overview of the need for and importance of codes and standards in oil & gas industry.</i>	Sachin Laxman Pol Director - Head Design & Training - Express Engineering Solutions



PROGRAM SCHEDULE

Build & Beyond Workshops & Elevate ME Career Connect

12th Sept 2025 | HICC, Hitech City, Hyderabad

Time	Session Title	Speaker
9:30 AM - 11 AM	Hands-on session: Apply AI to enable autonomy in Robotics using MATLAB <i>The AI applications in robotics greatly expanded in recent years to include voice command, object identification, pose estimation, and motion planning, to name a few. AI-enabled robots continue to grow for manufacturing facilities, power plants, warehouses, and other industrial sites.</i>	Souvick Chatterjee Technical Manager- Customer Success Engineering MathWorks India
	<i>In this hands-on session, you will learn:</i> <ul style="list-style-type: none">• Simulate multibody dynamics to understand robotics movements• Integrate AI for detecting and classifying objects• Motion planning• Connect theory of foundational robotics to industry applications	Rohit Bhattacharjee Customer Success Engineer MathWorks India
2 PM - 3 PM	Digital Twin Technology: Foundations, Challenges, and Future Directions <i>Digital Twin is largely misused terminology now. IN this talk, I will deliberate on the challenges, and the future directions in this technology. Focus will on the human-in-the loop Digital Twin Technology.</i>	Dr M Manivannan Professor IIT Madras
3 PM - 4 PM	The Future of Work: Skills That Matter Beyond Your Degree <i>Highlighting soft skills, adaptability, cross-functional collaboration, and learning agility as key traits employers seek today—especially in tech-driven workplaces. Importance of career management.</i>	Kavitha Kaleiselvi Director, Talentegrity Consulting Services LLP