

PURPOSE & LEARNING OUTCOME	TRAINING COURSES & DURATION
<p>This course is designed to build a <b>strong foundation in Instrumentation &amp; Control Engineering</b>, focusing on essential concepts and practical understanding required for the process industries.</p> <p>The program covers:</p> <ul style="list-style-type: none"> <li>• Fundamentals of <b>Instrumentation &amp; Control Systems</b></li> <li>• Basic principles of <b>Engineering and Design</b></li> <li>• <b>Engineering studies and real project case studies</b> for practical exposure</li> </ul> <p>On successful completion of this course, participants will gain a clear and structured understanding of core concepts, principles, and engineering fundamentals used in <b>Instrumentation &amp; Control Detail and Design Engineering</b>. The knowledge gained will prepare students to confidently engage with <b>Oil &amp; Gas, Refinery, and Petrochemical projects</b>, making them job-ready for entry-level engineering and technical roles.</p>	<p><b>AETD1: Overview of Instrumentation &amp; Control and Engineering (Offline)</b></p> <p>⇒ <b>Module -A:</b> Introduction to Instrumentation &amp; Control (Day 1 &amp; 2)</p> <p>⇒ <b>Module -B:</b> Introduction to Engineering (Day 3 &amp; 4)</p> <p>⇒ <b>Module -C:</b> Engineering Study and Case Study Examples (Day 5 &amp; 6)</p> <p><b>AETD2: Design and Development – Instrumentation &amp; Control Engineering (Offline)</b></p> <p>⇒ <b>Module -A:</b> Introduction to Instrumentation &amp; Control (Day 1 &amp; 2)</p> <p>⇒ <b>Module -B:</b> Project Management &amp; Engineering (Day 3, 4 &amp; 5)</p> <p>⇒ <b>Module -C:</b> Examples - Engineering Study and Case Study (Day 6 &amp; 7)</p>
<p><b>LEARNING OBJECT</b></p> <ol style="list-style-type: none"> <li>1. Introduction to Instrumentation &amp; Control</li> <li>2. Instrumentation &amp; Control System Interface</li> <li>3. Basic Concept in Instrumentation &amp; Control</li> <li>4. Introduction to Codes and Standards</li> <li>5. ISA 5.1 Instrumentation Symbols &amp; Identifications</li> <li>6. ISA 5.1 Tagging Description</li> <li>7. Basic Symbols – Line Types</li> <li>8. Instrumentation Devices or Function Symbols</li> <li>9. Example with Basic Symbols, Line Types implementation</li> <li>10. Definitions &amp; Overview of Measurement &amp; Engineering of Flow, Level, Pressure &amp; Temperature</li> <li>11. Primary Measurement, Secondary Measurement and Final Measurement</li> <li>12. Hazardous Area Classification</li> <li>13. Overview of PLC, DCS and SCADA Control System and their applications</li> <li>14. Engineering – Basic, FEED and Detailed &amp; Design</li> <li>15. Instrument Detail Engineering and its requirements</li> <li>16. Instrument Design deliverables</li> <li>17. Instrument &amp; Control Engineering and Examples</li> <li>18. Training and Development Certificate</li> </ol>	<p><b>Associated Membership (AM) – 12 months</b></p> <div data-bbox="838 1118 1473 1545"> <p>eFunda Consulting Engineers Associate Membership (AM) Card</p> <p>eFunda/AM: ..... Name: ..... ..... DOB: ..... Reg. Date: .....</p> <p>Valid Upto: ..... For eFunda .....</p> </div> <p><b>Fellow Membership (FM) – 18 months</b></p> <div data-bbox="838 1635 1473 2084"> <p>eFunda Consulting Engineers Fellow Membership (FM) Card</p> <p>eFunda/FM: ..... Name: ..... ..... DOB: ..... Reg. Date: .....</p> <p>Valid Upto: ..... For eFunda .....</p> </div>

### □ Development Plan and Scheme

Considering the present market scenario with more challenging and competitiveness one should be able to understand those challenges, requirements and accordingly work on those needs to achieve better career prospects.

eFunda team have introduced following membership terms as Career Development Plan and scheme for Engineering graduates as well as those who are pursuing their graduation in Instrumentation & Control Engineering Discipline.

#### A) ASSOCIATE MEMBERSHIP (AM)

This membership has introduced keeping academics & industrial requirements and develop the program accordingly to provide the following needs.

- Final Year Project Guidance:** Assist member to select project based on available options from outside industries.
- Career Counselling:** Assist member to decide on their career paths.
- Consultancy Briefing:** Assist member to provide detailed & design engineering organisations and their work requirements.
- Market Update:** Monthly updates through online session on Instrumentation disciplines, Engineering Project, development and other necessary information (i.e., Online interactive Session).
- Practise:** Two complimentary training sessions shall be provided upon successful completion of our designed training & development courses (i.e., 2 HRs each).

<b>eFunda</b> <b>eFunda Consulting Engineers</b> Associate Membership (AM) Card	
eFunda/AM: .....	
Name: .....	
.....	
DOB: ..... Reg. Date:.....	
Valid Upto:..... For eFunda .....	
<b>eFunda</b> <b>eFunda Consulting Engineers</b> Associate Membership (AM) Card	
This membership is introduced keeping industrial requirements and develop the programs accordingly.	
1. Final Year Project Guidance	2. Market Update
3. Carrer Counselling	4. Consultancy Briefing
5. Monthly Online Interaction	6. Discount on Training Courses
Email: <a href="mailto:efundachannel@gmail.com">efundachannel@gmail.com</a>	Mobile: +91-9819166815
Member Email:	Mobile:

**Note: Membership shall be valid only for 12 months and next renewal shall be discounted.**

#### B) FELLOW MEMBERSHIP (FM)

This membership has introduced keeping academics & industrial requirements and develop the program accordingly to provide the following needs.

- Final Year Project Guidance:** Assist member to select project based on available options from outside industries.
- Career Counselling:** Assist member to decide on their career paths.
- Consultancy Briefing:** Assist member to provide detailed & design engineering organisations and their work requirements.
- Market Update:** Monthly updates through online session on Instrumentation disciplines, Engineering Project, development and other necessary information (i.e., Online interactive Session ).
- Practise:** Two complimentary training sessions shall be provided upon successful completion of our designed training & development courses (i.e., 3 HRs each).

# eFunda Engineers and Aility Engineering Pvt. Ltd (AEPL)

## Training and Development Program for Instrumentation & Control Engineering

6. **Assistance ship in AEPL:** An Opportunity will be provided or considered based on requirements / slot availability.
7. **Placement Assistance:** The opportunities & required guidance will be shared to grab the opportunities available in the market.

eFunda eFunda Consulting Engineers	
Fellow Membership (FM) Card	
eFunda/FM: .....	
Name: .....	
.....	
DOB: ..... Reg. Date: .....	
Valid Upto:..... For eFunda: .....	

eFunda eFunda Consulting Engineers	
Fellow Membership (FM) Card	
This membership is introduced keeping industrial requirements and develop the programs accordingly.	
1. Final Year Project Guidance	2. Market Update / Online session
3. Carrer Counselling	4. Consultancy Briefing
5. Assistance/Placement (*)	6. Discount on Training Courses
Email: <a href="mailto:efundachannel@gmail.com">efundachannel@gmail.com</a>	Mobile: +91-9819166815
Member Email:	Mobile:

**Note: Membership shall be valid only for 18 months (i.e., One & half Year) and next renewal shall be discounted.**

➤ **For further Communication:**

- a) The communication related to the Membership options (AM / FM), please email to the following both email ids.  
[info@afilityengineering.com](mailto:info@afilityengineering.com) & [efundachannel@gmail.com](mailto:efundachannel@gmail.com)
- b) The communication related to the Training & Development Program, please email to the following both email ids.  
[info@afilityengineering.com](mailto:info@afilityengineering.com) & [mayurb@afilityengineering.com](mailto:mayurb@afilityengineering.com)

**Website: [www.afilityengineering.com](http://www.afilityengineering.com)**



**Aility Engineering Pvt. Ltd (AEPL)**