



Project No.
28006

Date
2025

Doc. No.
EOTSS28006

Serial No
28006/2025

Rev.
00

Proj. dep.
Technical

EOTSS Doc. CODE :

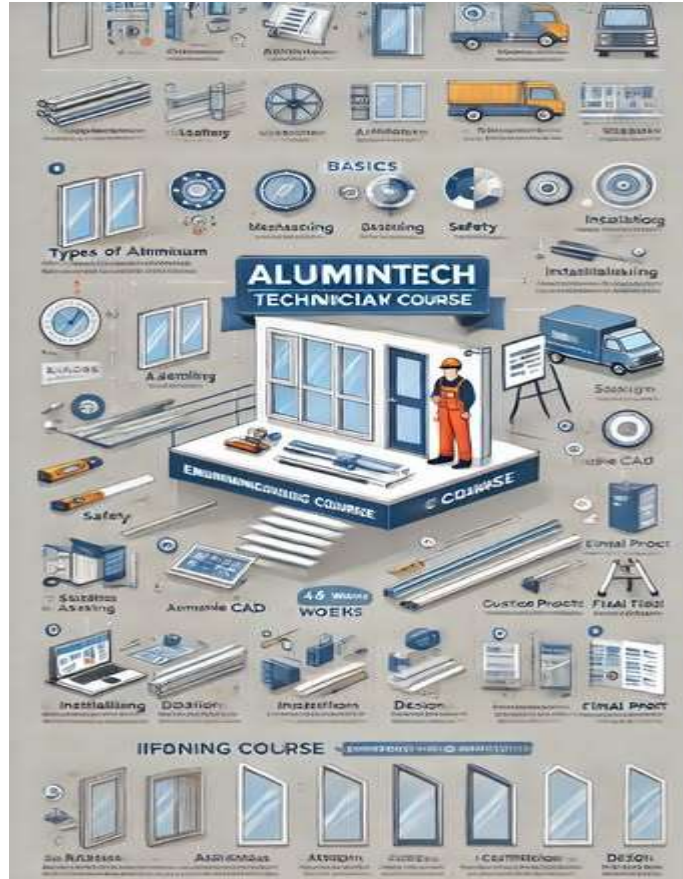
EOTSS/Technical/28006W-TECH/2025



المكتب الهندسي لخدمات التكنولوجيا والبرمجيات

Engineering office for Technology and Software Services

Course Title: AluminTech Technician Course – Aluminum Fabrication Technician



Objective:

To prepare skilled technicians specialized in manufacturing, shaping, and installing aluminum products with high quality and efficiency.

Target Audience:

- Beginners in the aluminum industry

Main Branch: United building – E Shams –Front NBE
, El Siouf _Alexandria

Tel: 01102060500-01144470856



الفرع الرئيسي: عمارات المتحدة – عمارة عين شمس – امام البنك
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- Skilled workers seeking to enhance their expertise
- Individuals aiming to start a small aluminum fabrication business



Level 1: Introduction to the Aluminum World (Basics)

Contents:

- Introduction to aluminum fabrication and its applications
- Types of aluminum systems and their uses (profiles – glass – accessories)
- Basic tools and workshop equipment
- Occupational safety procedures in aluminum workshops
- Reading blueprints and measurements
- Measuring and cutting profiles
- Introduction to common aluminum systems (Jumbo, Technal, PS, etc.)



Level 2: Fabrication and Forming Skills

Contents:

- Cutting and assembling aluminum profiles
- Using cutting and punching machines
- Glass fixing methods inside frames
- Installing accessories (hinges – handles – locks – silicone)
- Welding and joining techniques
- Practical applications in fabricating:
 - Sliding windows

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- Hinged windows
- Sliding doors
- Double-glazed hinged doors

Level 3: On-site Installation Skills

Contents:

- On-site installation tools
- Measuring and installing doors and windows
- Sealing and insulation against water and air
- Testing movement and closure after installation
- Periodic maintenance for hinges, handles, and glass
- Customer interaction and quality assurance

Level 4: Design and Innovation in Aluminum Fabrication

Contents:

- Designing customized windows and doors
- Integrating decorative and insulated glass
- Using simple design software (e.g., SketchUp or AutoCAD 2D)
- Project costing and product pricing
- Tips for starting a private workshop or small business

Level 5: Graduation Project and Skills Assessment

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Engineering office for Technology and Software Services

Contents:

- Complete project implementation (window + door with glass and accessories)
- Project presentation before a training committee
- Comprehensive practical evaluation
- Accredited certificate of aluminum technician proficiency



Course Duration:

4 to 6 weeks (depending on weekly training hours)



Training Resources:

- Instructional videos
- Hands-on workshop training
- Educational booklets and tool guides
- Theoretical and practical assessments

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