

AUTOMOTIVE TECHNICAL ACADEMY (ATA)

ATA-IT100

Car Interior, Upholstery & Trim Technology

Curriculum Framework (Version 1.0)

Programme Status: Proposed for Locking

Programme Information

Programme Code:

ATA-IT100

Programme Title:

Car Interior, Upholstery & Trim Technology

Qualification Level:

Professional Diploma

Duration:

48 Weeks

Training Days:

5 Days Per Week

Hours Per Day:

8 Hours

Total Contact Hours:

1,920 Hours

Teaching Philosophy

- **70% Practical = 1,344 Hours**
 - **30% Theory = 576 Hours**
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Entry Requirement

Successful completion of:

ATA-B000 – Automotive Body Works Foundation

or

Recognition of Prior Learning (RPL) in accordance with ATA admission policy.

Programme Goal

ATA-IT100

To produce competent automotive interior technicians capable of repairing, restoring, fabricating, customizing, and installing vehicle upholstery, seats, carpets, dashboards, roof linings, trim panels, steering wheels, and interior accessories using professional craftsmanship, modern equipment, and OEM-informed standards.

Graduate Competency Profile

Graduates shall be able to:

- Identify automotive interior materials and their applications.
 - Remove and reinstall complete vehicle interiors safely.
 - Repair and fabricate vehicle seats.
 - Repair and replace seat foams.
 - Cut and sew upholstery materials professionally.
 - Install leather, vinyl, fabric, Alcantara, and synthetic trim materials.
 - Restore dashboards and interior plastic components.
 - Install headliners (roof linings).
 - Fabricate and install carpets and floor insulation.
 - Restore door trims and centre consoles.
 - Restore steering wheels and gear knobs.
 - Install soundproofing and heat insulation materials.
 - Perform luxury interior customization.
 - Conduct quality inspections and prepare customer documentation.
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Programme Structure

Module	Title	Weeks	Hours
IT100-01	Interior Workshop Safety, Professional Practice & Tool Operations	3	120
IT100-02	Automotive Interior Materials, Design & Construction	5	200
IT100-03	Upholstery Cutting, Sewing & Seat Construction	8	320
IT100-04	Seat Restoration, Foam Repair & Ergonomic Systems	6	240

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Module	Title	Weeks	Hours
IT100-05	Door Panels, Dashboards, Consoles & Interior Trim	6	240
IT100-06	Headliners, Carpets, Soundproofing & Insulation Systems	6	240
IT100-07	Luxury Interior Customization & Interior Restoration	5	200
IT100-08	Workshop Estimating, Customer Service & Quality Assurance	3	120
IT100-09	Integrated Interior Restoration Projects	4	160
IT100-10	Industrial Attachment, Capstone Project & Final Assessment	2	80
TOTAL		48	1,920
		Weeks	Hours

Module 1

Interior Workshop Safety, Professional Practice & Tool Operations

Duration: 3 Weeks

Topics

- PPE
- Safe use of cutting tools
- Sewing machine safety
- Heat gun safety
- Adhesive handling
- Interior trim tools
- Workshop organization
- Customer property protection
- Professional ethics
- Job documentation

Practical Competencies

Students will:

- Operate upholstery tools safely.
 - Protect vehicle interiors during repairs.
 - Maintain workshop cleanliness and organization.
 - Complete professional service records.
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Module 2

Automotive Interior Materials, Design & Construction

Duration: 5 Weeks

Topics

- Interior design principles
- Leather
- Vinyl
- Fabric
- Alcantara
- Synthetic upholstery materials
- Plastics
- Interior adhesives
- Clips and fasteners
- OEM interior construction

Practical Competencies

Students will:

- Identify interior materials.
 - Select suitable replacement materials.
 - Inspect and evaluate interior damage.
 - Plan interior restoration projects.
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Module 3

Upholstery Cutting, Sewing & Seat Construction

Duration: 8 Weeks

Topics

- Pattern making
- Measuring
- Cutting techniques
- Industrial sewing machines

- Stitch types
- Decorative stitching
- Seat cover construction
- Leather wrapping
- Vinyl installation
- Upholstery finishing

Practical Competencies

Students will:

- Create seat cover patterns.
 - Operate industrial sewing machines.
 - Produce professional upholstery.
 - Install finished seat covers accurately.
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Module 4

Seat Restoration, Foam Repair & Ergonomic Systems

Duration: 6 Weeks

Topics

- Seat frame inspection
- Foam shaping
- Foam replacement
- Lumbar support systems
- Seat adjustment mechanisms
- Heated seat awareness
- Ventilated seat awareness
- Ergonomic principles
- Seat restoration

Practical Competencies

Students will:

- Restore damaged seats.
 - Replace foam sections.
 - Repair seat mechanisms.
 - Verify seat comfort and functionality.
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Module 5

Door Panels, Dashboards, Consoles & Interior Trim

Duration: 6 Weeks

Topics

- Door trim removal
- Dashboard restoration
- Centre consoles
- Pillar trims
- Interior plastics
- Steering wheel wrapping
- Gear knob restoration
- Interior panel fabrication
- Trim installation

Practical Competencies

Students will:

- Remove and reinstall trim components.
 - Restore dashboards.
 - Wrap steering wheels.
 - Fabricate replacement trim panels.
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Module 6

Headliners, Carpets, Soundproofing & Insulation Systems

Duration: 6 Weeks

Topics

- Roof lining removal
- Headliner board repair
- Fabric installation
- Carpet fabrication
- Carpet installation
- Underlay systems
- Soundproofing materials
- Heat insulation
- Water sealing

Practical Competencies

Students will:

- Replace roof linings.
 - Install new carpets.
 - Apply sound insulation.
 - Restore interior comfort systems.
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Module 7

Luxury Interior Customization & Interior Restoration

Duration: 5 Weeks

Topics

- Premium leather interiors
- Two-tone interiors
- Embroidery
- Logo stitching
- Diamond quilting
- Ambient lighting integration (trim considerations)
- Custom interior concepts
- Classic vehicle interior restoration
- Luxury finishing

Practical Competencies

Students will:

- Produce premium interior finishes.
 - Perform luxury customization.
 - Restore classic interiors.
 - Deliver showroom-quality workmanship.
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Module 8

Workshop Estimating, Customer Service & Quality Assurance

Duration: 3 Weeks

Topics

- Interior repair estimation
- Material costing
- Labour costing
- Customer consultation
- Job scheduling

- Documentation
- Quality inspection
- Warranty procedures

Practical Competencies

Students will:

- Prepare professional quotations.
 - Estimate materials accurately.
 - Inspect completed interiors.
 - Produce customer handover reports.
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Module 9

Integrated Interior Restoration Projects

Duration: 4 Weeks

Students complete comprehensive practical projects including:

- Complete seat restoration
 - Full interior re-trim
 - Headliner replacement
 - Carpet installation
 - Dashboard restoration
 - Steering wheel wrapping
 - Luxury interior customization
 - Final inspection and customer presentation
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Module 10

Industrial Attachment, Capstone Project & Final Assessment

Duration: 2 Weeks

Students complete:

- Supervised industrial attachment
- Complete interior restoration project
- Practical trade test
- Written examination
- Technical presentation
- Portfolio assessment
- Exit competency assessment

Required Laboratories & Workshops

- Upholstery & Sewing Workshop
 - Interior Trim Restoration Workshop
 - Seat Restoration Laboratory
 - Dashboard & Plastic Repair Laboratory
 - Carpet & Headliner Installation Workshop
 - Luxury Interior Customization Studio
 - Interior Quality Inspection Area
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Essential Training Equipment

Students should train with:

- Industrial sewing machines
 - Walking-foot sewing machines
 - Leather skiving machine
 - Foam cutting tools
 - Steam generator
 - Heat guns
 - Upholstery staplers
 - Hog ring pliers
 - Rivet tools
 - Trim removal tool sets
 - Leather punching tools
 - Embroidery machine (where available)
 - Upholstery workbenches
 - Pattern templates
 - Adhesive spray systems
 - Interior clip assortment
 - Professional PPE
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Assessment Structure

Assessment	Weight
Continuous Practical Assessment	35%

ATA-IT100

Assessment	Weight
Practical Trade Tests	30%
Written Examination	15%
Capstone Interior Restoration Project	15%
Professional Conduct & Industrial Attachment	5%
TOTAL	100%

Career Opportunities

Graduates may work as:

- Automotive Upholstery Technician
- Vehicle Interior Restoration Technician
- Luxury Vehicle Interior Specialist
- Seat Repair Technician
- Dashboard & Trim Restoration Technician
- Vehicle Customization Technician
- Classic Vehicle Interior Restoration Specialist
- Dealership Interior Repair Technician
- Interior Workshop Supervisor
- Independent Automotive Upholstery Business Owner