

What we Offer at



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Level 5

Higher
International
Diploma in

**Automobile
Engineering**

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Program Overview

The Higher International program in Automobile Engineering at **ASTI Academy** is organized to provide students with a practical overview of the design, testing, and functioning of vehicle components, preparing them for a successful career in the automotive industry. This program offers a blend of academic knowledge and hands-on practical training, delivered by experienced professionals from the field.

Students will gain valuable insights into core automotive concepts while working in advanced facilities, including modern laboratories dedicated to automotive systems, engines, computer-aided design (**CAD**), rapid prototyping, product development, controls, and vehicle dynamics. This qualification is ideal for learners aspiring to build a future in Automobile Engineering, as it equips them with the technical skills and practical experience demanded by the industry.

Aims & Objectives

The UK **Level 5 Higher International Program in Automobile Engineering** aims to equip students with the essential knowledge, practical skills, and industry-relevant expertise needed to succeed in the dynamic field of automotive engineering. This program is designed to bridge the gap between foundational engineering principles and advanced automotive technologies, preparing learners for both higher education and professional careers. This diploma is ideal for individuals seeking to build strong technical skills while gaining the confidence and capability to innovate within the evolving world of automobile engineering.

Key Objectives:



Program Module

Discover one of the top automobile engineering diploma programs in Dubai at **ASTI Academy**. Our Higher International Diploma in Automobile Engineering is designed to provide a strong foundation in automotive design, mechanics, electronics, and manufacturing, aligned with a globally recognized UK curriculum.

At ASTI, students benefit from a balanced mix of theoretical knowledge and practical training, facilitated by well-equipped laboratories and industry-relevant internships. The program covers everything from traditional vehicle systems to the latest advancements in automotive technologies. Whether you're interested in vehicle design, diagnostics, or development, this course equips you with the essential skills and practical experience needed to thrive in the fast-evolving automotive industry.

S. No	Unit Code	Unit Title	Credits
1	CUP001	Technical Drawings with Engineering Graphics	12 Credits
2	CUP002	Workshop and General Safety	12 Credits
3	CUP003	IT Application for Engineers	12 Credits
4	AEP001	Mechanical System in Automobile	12 Credits
5	AEP002	Applied Mathematics for Automobile Engineering	12 Credits
6	AEP003	Internal Combustion Engines	12 Credits
7	AEP004	Vehicle Body Engineering	12 Credits
8	AEP005	Automotive Transmission	12 Credits
9	GU001	Professional Ethics and Human Values	12 Credits
10	AEP012	Hydraulic and Pneumatic Systems	12 Credits
11	AEP006	Material Science and Engineering	15 Credits
12	AEP007	Electrical and Electronics in Automobile	15 Credits
13	AEP008	Modeling and Simulation of Automotive Systems	15 Credits
14	AEP016	Fitting Operations in Automobile	15 Credits
15	AEP017	Advanced Vehicle Concepts	15 Credits
16	AEP018	Automotive HVAC	15 Credits
17	SU001	Project	30 Credits

Program Specification

Qualification Title : Higher International Diploma in Automobile Engineering

Qualification Level : UK Level 5

Accreditation status : Accredited

Credit Equivalence : 240 Credits

Recognition : Internationally Recognized



Practical Learning Approach

Our program combines theoretical foundations with practical training, ensuring students gain real-world skills that are relevant to today's automotive industry.

1

Assignment-Based Evaluation – No Written Exams

Student progress is assessed through practical assignments and project work, eliminating the pressure of written exams and promoting continuous learning.

2

Fast-Track Completion in 9 Months (RPL)

With Recognition of Prior Learning (RPL), eligible students can complete the Program in just 9 months, accelerating their career growth.

3

International Acceptance and Credibility

The automobile engineering program is permitted by KHDA, and students may receive acceptance from the international awarding bodies.

4

Flexible Weekend & Online Classes

The curriculum is organised to fit around busy schedules, classes are available on weekends and online—ideal for working professionals and students seeking flexibility.

5

Access to Advanced, well-equipped Labs

Train in well-equipped automotive laboratories equipped with advanced tools and technology that enhance technical and diagnostic skills.

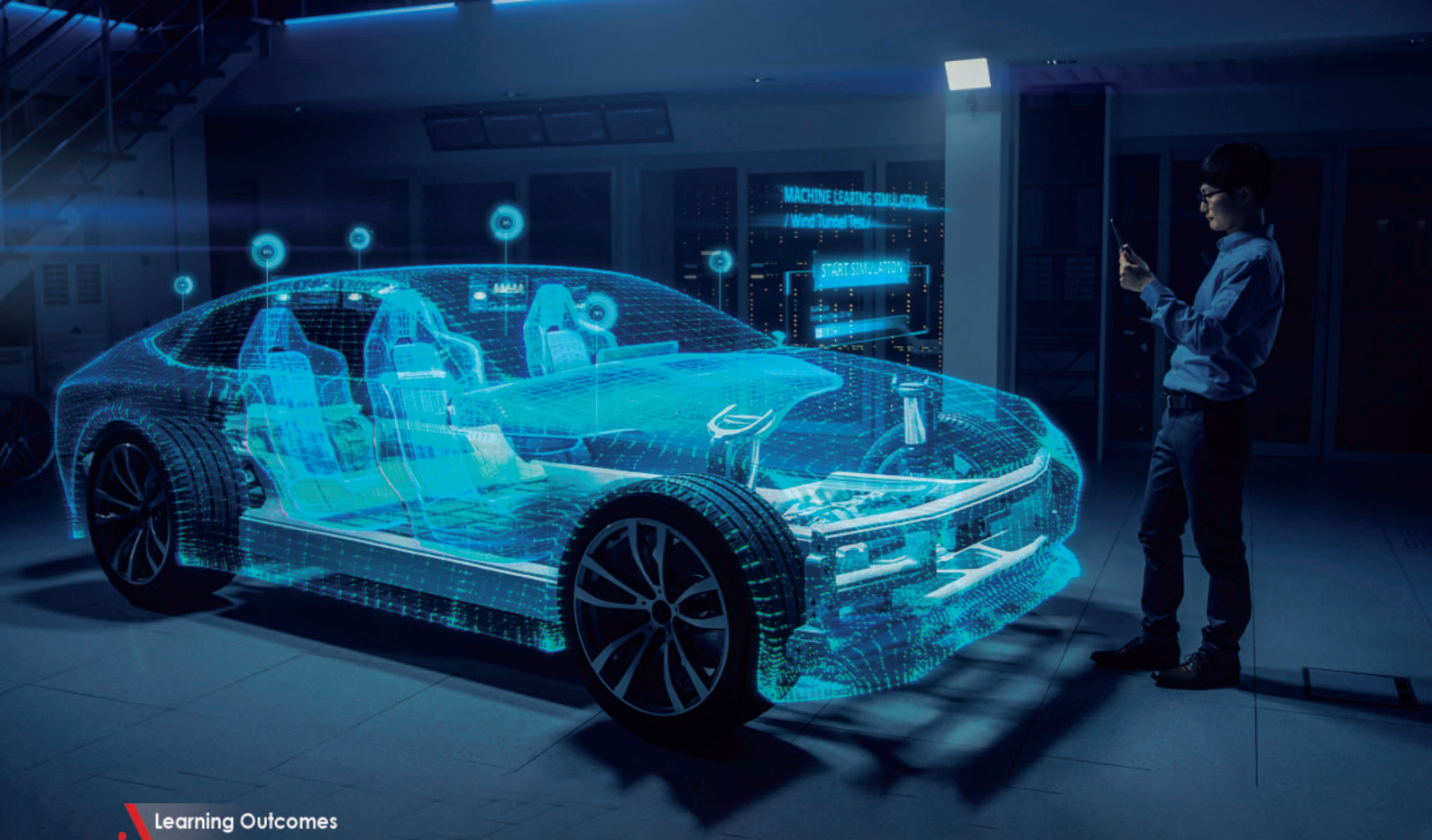
6

Affordable & Accessible Education

We believe quality education should be within reach for all. Our competitive fee structure makes it easier for students to pursue their academic and career goals without financial stress, with flexible payment options.

7





Learning Outcomes

- **Fundamental Knowledge of Automobile Systems:**

Gain a thorough understanding of key vehicle components such as engines, transmission, suspension, braking, and steering systems.

- **Mechanical and Electrical Integration:**

Learn how mechanical systems interact with automotive electronics, including sensors, ECUs, and advanced control systems.

- **Vehicle Maintenance & Servicing:**

Develop skills in routine vehicle maintenance, repair procedures, and the use of service manuals and diagnostic tools.

- **Automotive Design & Manufacturing Processes:**

Understand the fundamentals of vehicle design, CAD modeling, and modern manufacturing techniques used in the automotive industry.

- **Automobile Diagnostics & Troubleshooting:**

Learn to identify and resolve mechanical and electronic faults using industry-standard diagnostic equipment.

- **Engine Technology & Fuel Systems:**

Explore the operation of petrol and diesel engines, fuel injection systems, emission controls, and hybrid powertrains.

Career Pathways



Automobile Designer

Automotive Software Engineers



Automotive Technician



Production Engineer



Our Recognition



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Level 5

Higher
International
Diploma in

Mechanical Engineering

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Program Overview

The Level 5 Higher International Diploma in Mechanical Engineering at **ASTI Academy** is tailored for learners who aim to deepen their technical knowledge and practical skills in mechanical systems, design processes, and engineering technologies. This engineering qualification focuses on preparing students for the practical realities of the engineering field, where problem-solving, innovation, and applied science go hand-in-hand.

Whether you're continuing from a Level 3 diploma, switching careers, or seeking a pathway to a bachelor's degree, this program provides a strong foundation in mechanical design, thermodynamics, materials science, fluid mechanics, and more. With flexible study options and project-based assessments, students benefit from industry-relevant education that aligns with global engineering standards.

Aims & Objectives

The **UK Level 5 Higher International Diploma in Mechanical Engineering** aims to equip students with the essential knowledge, practical skills, and industry-relevant expertise needed to succeed in the dynamic field of mechanical engineering. This program is designed to bridge the gap between foundational engineering principles and advanced automotive technologies, preparing learners for both higher education and professional careers. The curriculum is structured to cover critical aspects of modern mechanical engineering, including design thinking, material applications, and industrial operations.



Program Module

The Level 5 **Higher International Diploma in Mechanical Engineering** consists of advanced modules that blend theoretical understanding with applied engineering practice. Each module is designed to develop core competencies that prepare students for real-world technical roles or further academic study.

S. No	Unit Code	Unit Title	Credits
1	CUP001	Technical Drawings with Engineering Graphics	12 Credits
2	CUP002	Workshop and General Safety	12 Credits
3	CUP003	IT Application for Engineers	12 Credits
4	MEP001	Strength of Materials	12 Credits
5	MEP002	Computer Aided Design and Drafting	12 Credits
6	MEP003	Principle and Operation of Fluid Machinery	12 Credits
7	MEP004	Mechanical Workshop Practice	12 Credits
8	MEP005	Applied Mathematics	12 Credits
9	GU001	Professional Ethics and Human values	12 Credits
10	MEP010	Thermal Science for Mechanical Application	12 Credits
11	MEP006	Modeling and Simulation of Mechanical Systems	15 Credits
12	MEP007	Basic Electrical and Electronics Engineering	15 Credits
13	MEP008	Welding Principles and Application	15 Credits
14	MEP015	Design and Applied Mechanics	15 Credits
15	MEP017	Power Plant Engineering	15 Credits
16	MEP018	Advanced mechanical engineering systems	15 Credits
17	SU001	Project	30 Credits

Program Specification

Qualification Title : Higher International Diploma in Mechanical Engineering

Qualification Level : UK Level 5

Accreditation status : Accredited

Credit Equivalence : 240 Credits

Recognition : Internationally Recognized

Practical Learning Approach

Our program combines theoretical foundations with practical training, ensuring students gain real-world skills that are relevant to today's industry standards.

1

Assignment-Based Evaluation – No Written Exams

Student progress is assessed through practical assignments and project work, eliminating the pressure of written exams and promoting continuous learning.

2

Fast-Track Completion in 9 Months (RPL)

With Recognition of Prior Learning (RPL), eligible students can complete the program in just 9 months, accelerating their career growth.

3

International Acceptance and Credibility

The mechanical engineering program is permitted by KHDA, and students may receive acceptance from the international awarding bodies.

4

Flexible Weekend & Online Classes

The curriculum is organised to fit around busy schedules, classes are available on weekends and online—ideal for working professionals and students seeking flexibility.

5

Access to Advanced, well-equipped Labs

Train in well-equipped mechanical workshops equipped with advanced tools and technology that enhance technical and diagnostic skills.

6

Affordable & Accessible Education

We believe quality education should be within reach for all. Our competitive fee structure makes it easier for students to pursue their academic and career goals without financial stress, with flexible payment options.

7





Learning Outcomes

- Apply mechanical engineering principles to solve real-world challenges in design, manufacturing, and maintenance.
- Use engineering tools, software, and equipment confidently in practical and technical settings.
- Design efficient mechanical systems with a focus on safety, sustainability, and functionality.
- Communicate technical information effectively through written reports, diagrams, and presentations.
- Demonstrate critical thinking, problem-solving, and leadership in team environments.
- Progress academically or professionally into more advanced roles or higher education.

Maintenance Engineer



Quality Control Technician



Mechanical Design Engineer



Project Coordinator



Production Supervisor



Junior Automation Specialist

Our Recognition



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Level 5

Higher
International
Diploma in

Civil Engineering

www.astiacademy.ac.ae



Program Overview

The Level 5 Higher International Diploma in Civil Engineering offered by **ASTI Academy** is designed for individuals looking to build a strong foundation in one of the world's most in-demand engineering disciplines. This program combines theoretical knowledge with practical training, allowing students to understand the core principles of civil engineering while developing the practical skills needed to design, construct, and maintain infrastructure projects such as bridges, buildings, roads, and water systems.

Delivered through flexible learning options – including online and weekend classes – this qualification is ideal for recent school graduates, working professionals, and career changers who aspire to be part of the UAE's fast-growing construction and development sector. Al Shabaka Technical Institutional Academy is permitted by KHDA (Permit Number: 60033) and internationally recognized, the program provides a globally recognized academic pathway leading to further studies or direct career entry.

Aims & Objectives

The UK Level 5 Higher International Diploma in Civil Engineering aims to equip students with the essential knowledge, practical skills, and industry-relevant expertise needed to succeed in the dynamic field of civil engineering. This program aims to prepare students to meet the real-world challenges of civil engineering by equipping them with industry-relevant skills and a solid academic background.

Key Objectives:



Program Module

Each module is delivered through practical assignments, projects, and trainer-led sessions to maximize understanding and applicability. The curriculum for the **Level 5 Higher International Diploma in Civil Engineering** is thoughtfully structured to provide students with a comprehensive learning experience that blends theoretical principles with practical application. Across both levels, learners will engage with a diverse range of subjects that build the technical, analytical, and design skills required in today's construction and infrastructure industry.

S. No	Unit Code	Unit Title	Credits
1	CUP001	Technical Drawings with Engineering Graphics	12 Credits
2	CUP002	Workshop and General Safety	12 Credits
3	CUP003	IT Application for Engineers	12 Credits
4	CEP001	Construction Material, Method, and Techniques	12 Credits
5	CEP002	Practical application of civil constructions	12 Credits
6	CEP003	Applied Mathematics for Civil Engineering	12 Credits
7	CEP004	Site survey and Practice	12 Credits
8	CEP005	Geotechnical and Foundation Engineering	12 Credits
9	CEP011	Environmental impact of construction	12 Credits
10	CEP010	Civil 2D & 3D CAD Design	12 Credits
11	CEP006	Civil Structural Analysis & Design	15 Credits
12	CEP007	Hydraulics in civil engineering	15 Credits
13	CEP008	Civil Blueprint Reading and Estimation	15 Credits
14	CEP021	Design of Steel and Masonry Structures	15 Credits
15	CEP018	Design of light weight structures for construction and building environments	15 Credits
16	GU003	Numerical Methods	15 Credits
17	SU001	Project	30 Credits

Program Specification

Qualification Title : Higher International Diploma in Civil Engineering

Qualification Level : UK Level 5

Accreditation status : Accredited

Credit Equivalence : 240 Credits

Recognition : Internationally Recognized

Our Recognition



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Qualifications and Awards in Dubai

This Program is
Permitted by KHDA

Practical Learning Approach

Our program combines theoretical foundations with practical training, ensuring students gain real-world skills that are relevant to today's construction industry.

1

Assignment-Based Evaluation – No Written Exams

Student progress is assessed through practical assignments and project work, eliminating the pressure of written exams and promoting continuous learning.

2

Fast-Track Completion in 9 Months (RPL)

With Recognition of Prior Learning (RPL), eligible students can complete the program in just 9 months, accelerating their career growth.

3

International Acceptance and Credibility

Civil engineering is permitted by KHDA, and students may receive acceptance from the international awarding bodies.

4

Flexible Weekend & Online Classes

The curriculum is organised to fit around busy schedules, classes are available on weekends and online—ideal for working professionals and students seeking flexibility.

5

Access to Advanced, well-equipped Labs

Train in well-equipped civil laboratories equipped with advanced tools and technology that enhance technical and analytics skills.

6

Affordable & Accessible Education

We believe quality education should be within reach for all. Our competitive fee structure makes it easier for students to pursue their academic and career goals without financial stress, with flexible payment options.

7





Learning Outcomes

- Demonstrate a comprehensive understanding of the principles and practices of civil engineering.
- Apply design techniques to real-world infrastructure projects with attention to safety and sustainability.
- Conduct site surveys, analyze structural systems, and use engineering software tools effectively.
- Interpret and produce technical drawings and engineering documents with precision.
- Collaborate effectively in multidisciplinary teams, managing time, resources, and communication in project settings.
- Transition smoothly into higher education or entry-level roles within the construction and engineering sectors.

CAD Draftsman



Junior Civil Engineer



Construction Project Coordinator



Estimation and Quantity Surveyor Assistant



Site Engineer



Structural Technician



Geotechnical Assistant





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Level 5

Higher
International
Diploma in

**Electrical &
Electronics
Engineering**

www.astiacademy.ac.ae



Program Overview

The Electrical & Electronics Engineering is at the core of today's technological revolution—powering everything from smart homes to automated factories. The Level 5 Higher International Diploma in Electrical & Electronics Engineering at ASTI Academy equips learners with the technical knowledge and hands-on experience to thrive in this rapidly evolving field.

The program is planned to meet international industry standards. This program provides a deep dive into advanced electrical systems, circuit analysis, digital electronics, and control systems. Whether you're a program holder aiming to advance your education or a working professional looking to upskill, this qualification offers flexible learning and real-world applications to prepare you for global career opportunities or progression to a bachelor's degree. Al Shabaka Technical Institutional Academy is permitted by KHDA (Permit Number: 60033) and internationally recognized, graduates receive a qualification that is both locally recognized and globally respected.

Aims & Objectives

The UK **Level 5 Higher International Diploma in Electrical & Electronics Engineering** aims to equip students with the essential knowledge, practical skills, and industry-relevant expertise needed to succeed in the dynamic field of automotive engineering. This program is designed to bridge the gap between foundational engineering principles and empower students with the knowledge and confidence to succeed in electrical and electronics engineering roles.



Key Objectives:

Strengthen understanding of electrical systems, electronic devices, and automation technology.

Develop critical thinking and problem-solving abilities in real-world engineering contexts.

Equip students with practical skills in circuit design, testing, and diagnostics using modern tools and software

Offer a structured pathway toward higher education or direct employment in the electrical engineering sector.

Promote awareness of safety standards, energy efficiency, and sustainable engineering practices.

Program Module

The **Level 5 Higher International Diploma in Electrical & Electronics Engineering** offers a well-rounded and application-driven curriculum. Each module is designed to deepen students' understanding of advanced electrical systems while enhancing practical skills through lab work, simulations, and live projects.

Each module integrates practical activities, problem-solving tasks, and assignment-based evaluation, ensuring students don't just learn concepts, but know how to apply them confidently in real-world electrical and electronics engineering roles.

S. No	Unit Code	Unit Title	Credits
1	CUP001	Technical Drawings with Engineering Graphics	12 Credits
2	CUP002	Workshop and General Safety	12 Credits
3	CUP003	IT Application for Engineers	12 Credits
4	EEP001	Electronic Devices & Circuits	12 Credits
5	EEP002	Microprocessor and Microcontroller	12 Credits
6	EEP003	Design of Electrical Machines	12 Credits
7	EEP004	Control Systems	12 Credits
8	EEP005	Linear Integrated Circuits	12 Credits
9	EEP010	Power Electronics	12 Credits
10	GU001	Professional Ethics and Human Values	12 Credits
11	EEP006	Applied Mathematics for Electrical Engineering	15 Credits
12	EEP007	Digital Logic Circuits	15 Credits
13	EEP008	Principles of Communication	15 Credits
14	EEP014	Measurements & Instrumentation	15 Credits
15	EEP017	Transmission and Distribution	15 Credits
16	EEP019	Protection and Switchgear	15 Credits
17	SU001	Project	30 Credits

Program Specification

Qualification Title : Higher International Diploma in Electrical & Electronics Engineering

Qualification Level : UK Level 5

Accreditation status : Accredited

Credit Equivalence : 240 Credits

Recognition : Internationally Recognized

Practical Learning Approach

Our program combines theoretical foundations with practical training, ensuring that students gain real-world skills relevant to today's electrical & electronics industry.

Assignment-Based Evaluation – No Written Exams

Student progress is assessed through practical assignments and project work, eliminating the pressure of written exams and promoting continuous learning.

Fast-Track Completion in 9 Months (RPL)

With Recognition of Prior Learning (RPL), eligible students can complete the program in just 9 months, accelerating their career growth.

International Acceptance and Credibility

The electrical & electronics engineering program is permitted by KHDA, and students may receive acceptance from the international awarding bodies.

Flexible Weekend & Online Classes

The curriculum is organised to fit around busy schedules, classes are available on weekends and online—ideal for working professionals and students seeking flexibility.

Access to Advanced, well-equipped Labs

Train in a well-equipped electrical & electronics Lab with advanced tools and technology that enhance technical and analytics skills.

Affordable & Accessible Education

We believe quality education should be within reach for all. Our competitive fee structure makes it easier for students to pursue their academic and career goals without financial stress, with flexible payment options.

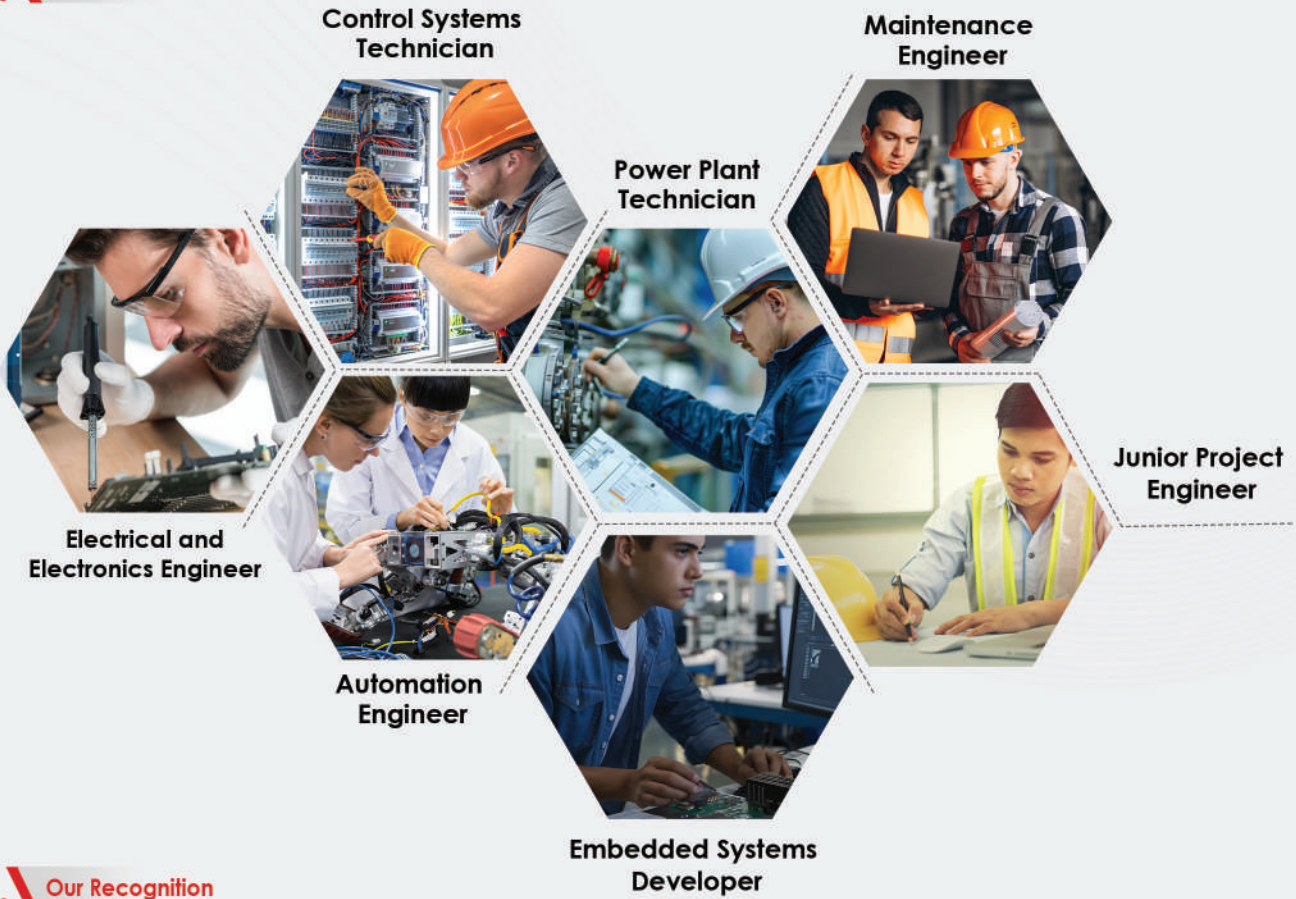




Learning Outcomes

- Analyze and solve complex problems in electrical and electronic systems.
- Design and test electronic circuits and automation systems.
- Operate engineering software and lab tools for diagnostics and simulations.
- Apply international safety and quality standards in real-world engineering environments.
- Communicate technical information effectively in reports and project documentation.
- Transition smoothly into higher education or industry-based roles.

Career Pathways



Our Recognition



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Level 5

Extended Diploma in

**Business
Management**

www.astiacademy.ac.ae



Program Overview

The Level 5 Extended Diploma in Business Management at **ASTI Academy** is designed to provide learners with the on-demand tools and professional mindset needed to excel in a wide range of business environments.

This Program offers a deeper understanding of core business functions such as finance, marketing, operations, human resources, and organizational leadership. The program places strong emphasis on critical thinking, problem-solving, communication, and real-world business strategy. It is ideal for aspiring entrepreneurs, team leaders, business administrators, and anyone seeking to advance into managerial roles.

Delivered by industry-experienced faculty, the course features interactive learning, case studies, group projects, and assignments that reflect the challenges faced by modern businesses. Whether you're starting your career or enhancing your current qualifications, this program offers a flexible route to success.

Aims & Objectives

The **Level 5 Extended Diploma in Business Management** aims to develop professionally competent and strategically aware business leaders who can thrive in diverse organizational settings. The course is designed to offer both academic depth and relevance, ensuring students are workplace-ready upon graduation. Al Shabaka Technical Institutional Academy is permitted by KHDA (Permit Number: 60033) and internationally recognized, and the Program also serves as a bridge to a bachelor's degree in business or management-related fields, preparing students for academic advancement or immediate employment in business sectors across the UAE and internationally.

Key Objectives:



Program Module

The **Level 5 Extended Diploma in Business Management** is structured around a series of comprehensive modules that reflect the dynamic needs of the business world. Each module builds a critical skill set and contributes to a complete understanding of how modern businesses operate and compete.

S. No	Unit Code	Unit Title	Credits
1	BUS 1.1	Communication in an Organization	20 Credits
2	BUS 1.2	Leadership and the Organization	20 Credits
3	BUS 1.3	Financial Awareness	20 Credits
4	BUS 1.4	Managing Change	20 Credits
5	BUS 1.5	Business Operations	20 Credits
6	BUS 1.6	Developing Teams	20 Credits
7	BUS 2.1	Responding to the Changing Business Environment	20 Credits
8	BUS 2.2	Effective Decision Making	20 Credits
9	BUS 2.3	Business Development	20 Credits
10	BUS 2.4	Business Models and Growing Organizations	20 Credits
11	BUS 2.5	Customer Management	20 Credits
12	BUS 2.6	Risk Management and Organizations	20 Credits

Program Specification

Qualification Title : Level 5 Extended Diploma in Business Management

Qualification Level : UK Level 5

Accreditation status : Accredited

Credit Equivalence : 240 Credits

Recognition : Internationally Recognized

Our Recognition



TVET

الجهة المانحة للمؤهلات في دبي
Qualifications and Awards in Dubai

This Program is
Permitted by KHDA

Industry-Focused Learning

We connect the classroom to real-world business problems.

1

Assignment-Based Evaluation – No Written Exams

Student progress is assessed through assignments and project work, eliminating the pressure of written exams and promoting continuous learning.

2

Fast-Track Completion in 9 Months (RPL)

With Recognition of Prior Learning (RPL), eligible students can complete the Program in just 9 months, accelerating their career growth.

3

International Acceptance and Credibility

The business management program is permitted by KHDA, and students may receive acceptance from the international awarding bodies.

4

Flexible Weekend & Online Classes

The curriculum is organised to fit around busy schedules, classes are available on weekends and online — ideal for working professionals and students seeking flexibility.

5

Supportive Learning Environment

From academic assistance to career counseling, you're supported every step of the way.

6

Affordable & Accessible Education

We believe quality education should be within reach for all. Our competitive fee structure makes it easier for students to pursue their academic and career goals without financial stress, with flexible payment options.

7





Learning Outcomes

- Apply core business principles to solve operational and strategic challenges.
- Analyze financial statements and assess the financial health of an organization.
- Develop and manage marketing strategies tailored to target audiences.
- Lead teams effectively using management and motivational techniques.
- Interpret and apply HR policies and practices that support organizational goals.
- Make informed, data-driven business decisions using critical analysis.
- Communicate effectively in professional settings, both in writing and verbally.
- Understand global business trends and adapt strategies to changing environments.





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Level 5

Extended Diploma in
**Accounting &
Finance**

www.astiacademy.ac.ae



Program Overview

The **Level 5 Extended Diploma in Accounting and Finance** at **ASTI Academy** is designed to equip students with a comprehensive understanding of financial management and core business operations—skills that are essential in today's competitive corporate world. This Program bridges accounting knowledge with strategic business thinking, preparing students for roles that require both analytical accuracy and managerial insight.

Ideal for school leavers, working professionals, or those looking to change careers, the program combines practical training with theoretical foundations. Students will explore a wide range of subjects, including financial reporting, business law, budgeting, taxation, and organizational behavior. The curriculum mirrors real-world business challenges, giving learners a practical edge as they prepare to step into accounting or business-related roles.

Aims & Objectives

ASTI's flexible delivery model, with online and weekend classes, ensures accessibility for those balancing education with other commitments. The course also offers a fast-track completion option through Recognition of Prior Learning (RPL), enabling qualified learners to complete the program in just 9 months. Al Shabaka Technical Institutional Academy is permitted by KHDA (Permit Number: 60033) and internationally recognized, opening opportunities for academic progression and global employment. Whether you aim to become a finance professional, start your own business, or pursue a bachelor's degree in accounting or business, this program serves as a strong foundation.

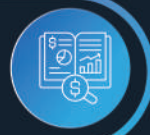
The primary aim of the **Level 5 Extended Diploma in Accounting and Finance** is to provide learners with the practical skills and technical knowledge needed to manage and interpret financial information while understanding the broader business context.

Key Objectives:



To develop strong foundational knowledge in accounting principles, including bookkeeping, financial statements, auditing basics, and financial control techniques.

To integrate financial skills with broader business functions, such as marketing, human resources, operations, and strategic planning.



To promote the use of accounting software and digital tools, enabling learners to apply financial data in business decision-making using modern systems.

To build critical thinking, ethical awareness, and analytical reasoning so learners can evaluate financial performance and business risks responsibly.



To build critical thinking, ethical awareness, and analytical reasoning so learners can evaluate financial performance and business risks responsibly.

To prepare students for real-world business scenarios, we use assignment-based learning and case studies.



To provide a pathway for academic and career advancement, step directly into industry roles across accounting, finance, or business sectors.

Program Module

The **Level 5 Extended Diploma in Accounting and Finance** consists of carefully selected modules that reflect the demands of today's finance and corporate world. Each subject combines academic theory with case studies, giving students relevant, work-ready experience. Modules are assignment-based, encouraging critical thinking, problem-solving, and practical application, without the stress of written exams. Through hands-on learning, software training, and practical assignments, students gain the tools to succeed in the architecture, engineering, and construction industries.

S. No	Unit Title	Credits
1	Accounting in a Business Context	20 Credits
2	Economics for Business Mathematical	20 Credits
3	Accounting Methods	20 Credits
4	Financial Accounting	20 Credits
5	Management Accounting	20 Credits
6	Leadership and Management in Accounting	20 Credits
7	Financial Management	20 Credits
8	Financial Planning and Control	20 Credits
9	Financial Reporting	20 Credits
10	Principles and Practices of Taxation	20 Credits
11	Management of People	20 Credits
12	Ethics and Corporate Responsibility in Business	20 Credits

Program Specification

Qualification Title : Level 5 Extended Diploma in Accounting and Finance

Qualification Level : UK Level 5

Accreditation status : Accredited

Credit Equivalence : 240 Credits

Recognition : Internationally Recognized

Our Recognition



TVET

الجهة المانحة للمؤهلات في دبي
Qualifications and Awards in Dubai

This Program is
Permitted by KHDA

**Assignment-Based Evaluation
– No Written Exams**

Student progress is assessed through assignments and project work, eliminating the pressure of written exams and promoting continuous learning.

1

Fast-Track Completion in 9 Months (RPL)

With Recognition of Prior Learning (RPL), eligible students can complete the program in just 9 months, accelerating their career growth.

2

**International Acceptance
and Credibility**

The accounting & finance course is permitted by KHDA, and students may receive acceptance from the international awarding bodies from the respective UK awarding body.

3

Flexible Weekend & Online Classes

The curriculum is organised to fit around busy schedules, classes are available on weekends and online—ideal for working professionals and students seeking flexibility.

4

Supportive Learning Environment

From academic assistance to career counseling, you're supported every step of the way.

5

Affordable & Accessible Education

Quality education should be within reach for all. Our competitive fee structure enables students to pursue their academic and career goals without financial stress, offering flexible payment options.

6





Learning Outcomes

- Understand the micro-and macro-economic factors that affect business
- Understand the business environment's impact on financial accounting:
- Develop mathematical skills required for financial accounting
- Understand and prepare financial accounts:
- Understand the purpose of and use management accounting techniques
- Understand the role of leadership and management in accounting
- Financial theories and working capital management, and the management of an organisation's global financial risk,
- Corporate governance relating to financial planning and control, the economic and financial environment in general and potential investment appraisal
- Organizational business assets management and the preparation of financial reports
- The principles of taxation and the requirements of personal and business tax
- People management in organizations throughout the human resources (HR) cycle
- Corporate Social Responsibility (CSR) in business.

Junior Accountant



SME Business Consultant



Payroll Officer



Accounting Software Specialist



Accounts Assistant



Tax Assistant



Business Development Coordinator





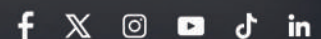
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Level 5

Higher
International
Diploma in

**Information
Technology**

www.astiacademy.ac.ae



Program Overview

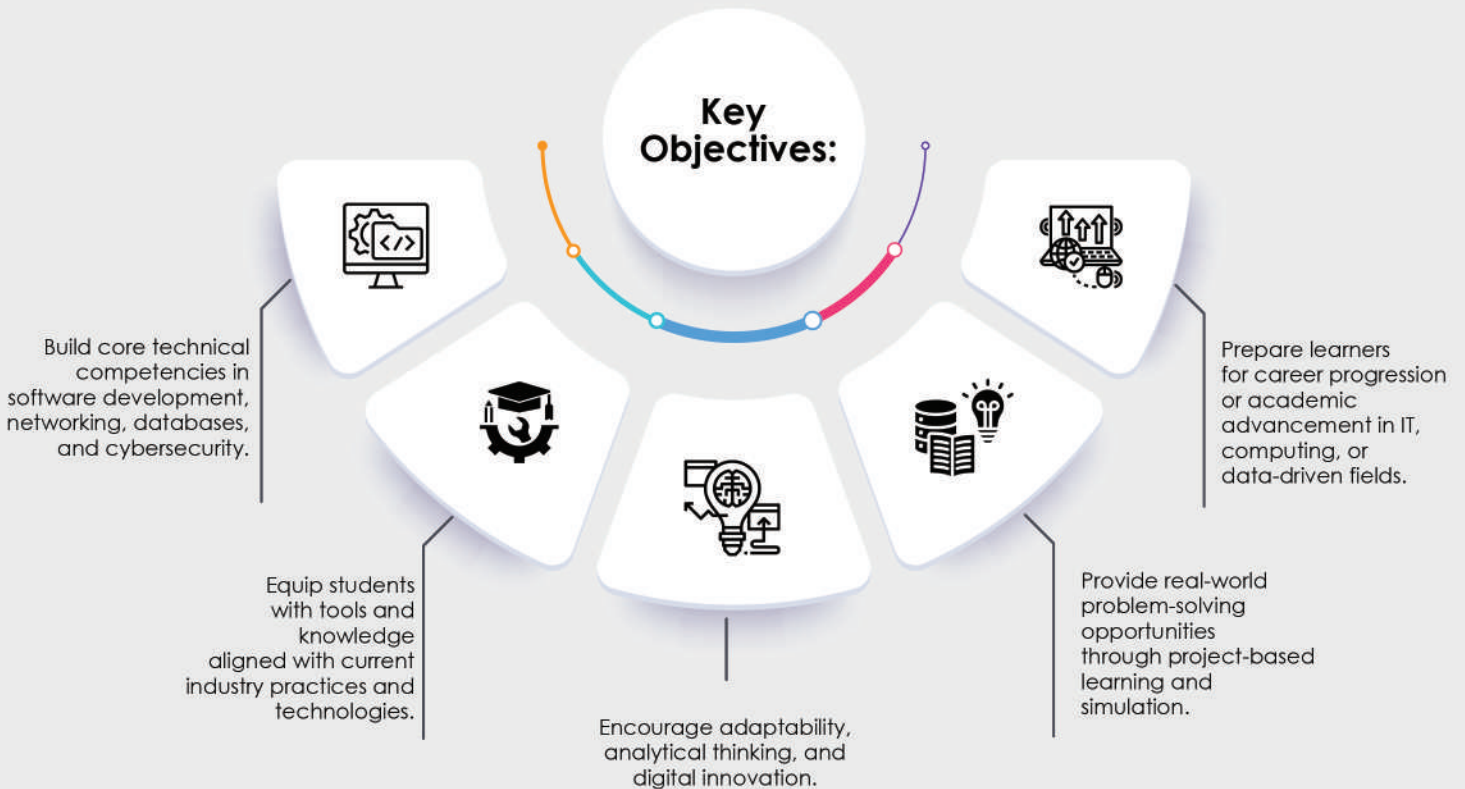
Technology is the backbone of the modern world, from global business operations to everyday communication. The Level 5 Higher International Diploma in Information Technology at **ASTI Academy** is a career-focused program designed to give students hands-on skills and advanced knowledge in computing, systems management, software development, and IT infrastructure.

This program is ideal for individuals aiming to become IT professionals, developers, systems analysts, or project managers. Whether you're continuing from a diploma or looking to upskill in a fast-evolving field, this program offers a flexible and practical approach to learning.

Al Shabaka Technical Institutional Academy is permitted by KHDA (Permit Number: 60033) and internationally recognized, this program is not just locally relevant—it's globally valuable. Graduates can confidently step into the IT industry or progress to a full bachelor's degree in IT or related disciplines.

Aims & Objectives

The **Level 5 Higher International Diploma in Information Technology** is designed to equip students with both the technical capabilities and strategic mindset required to thrive in today's rapidly evolving digital landscape. As businesses across all sectors embrace digital transformation, there is a growing demand for professionals who not only understand technology but also know how to apply it effectively to solve real-world problems. This program aims to bridge the gap between academic theory and practical industry needs by providing a curriculum that blends core computing skills with modern technological applications.



Program Module

The curriculum of the **Level 5 Higher International Diploma in Information Technology** is carefully designed to balance theoretical knowledge with practical skills. Each module has been selected to reflect current industry demands and give learners a competitive edge in the IT job market. Students engage in hands-on projects, interactive labs, and live case studies to enhance classroom learning.

At **ASTI**, students benefit from a balanced mix of theoretical knowledge and practical training, facilitated by well-equipped laboratories and industry-relevant internships.

S. No	Subject Code	Unit Name	Unit Specification	Credits
1	CUP001	Technical Drawings with Engineering Graphics	Common unit	12
2	CUP002	Workshop and General Safety	Common unit	12
3	CUP003	IT Application for Engineers	Common unit	12
4	ITP001	Fundamentals of Computer Science	Essential unit	12
5	ITP002	Applied Mathematics for Information Technology	Essential unit	12
6	ITP003	Introduction to E-Commerce	Essential unit	12
7	ITP004	Network Topologies	Essential unit	12
8	ITP005	Computer Programming	Essential unit	12
9	ITP006	Web Development and Design	Essential unit	12
10	ITP007	Database Management	Essential unit	12
11	ITP008	Object-Oriented Programming with Java	Essential unit	12
12	ITP009	System Analysis and Design	Elective (or) Open unit	12
13	ITP010	Data Structures & Algorithm	Elective (or) Open unit	12
14	ITP013	Mobile Application Development	Elective (or) Open unit	15
15	ITP014	Network Security	Elective (or) Open unit	15
16	ITP015	Programming in PHP	Elective (or) Open unit	15
17	SU001	Project	Special unit (Essential*)	30
		Total Credits		240

Program Specification

Qualification Title : Level 5 Higher International Diploma in Information Technology

Qualification Level : UK Level 5

Accreditation status : Accredited

Credit Equivalence : 240 Credits

Recognition : Internationally Recognized

Our Recognition



TVET

الجهة المانحة للمؤهلات في دبي
Qualifications and Awards in Dubai

This Program is
Permitted by KHDA

Practical Learning Approach

Our program combines theoretical foundations with practical training, ensuring that students gain real-world skills relevant to today's IT industry.

Assignment-Based Evaluation – No Written Exams

Student progress is assessed through practical assignments and project work, eliminating the pressure of written exams and promoting continuous learning.

Fast-Track Completion in 9 Months (RPL)

With Recognition of Prior Learning (RPL), eligible students can complete the program in just 9 months, accelerating their career growth.

International Acceptance and Credibility

The information technology program is permitted by KHDA, and students may receive acceptance from the international awarding bodies.

Flexible Weekend & Online Classes

The curriculum is organised to fit around busy schedules, classes are available on weekends and online—ideal for working professionals and students seeking flexibility.

Access to Advanced, well-equipped Labs

Train in a well-equipped IT lab with advanced tools and technology that enhance technical and analytics skills.

Affordable & Accessible Education

We believe quality education should be within reach for all. Our competitive fee structure makes it easier for students to pursue their academic and career goals without financial stress, with flexible payment options.





Learning Outcomes

- Design, develop, and deploy software applications across platforms.
- Configure, manage, and secure network systems and databases.
- Analyze business requirements and deliver technology-based solutions.
- Apply cybersecurity practices to protect information systems.
- Communicate technical ideas clearly and professionally in project settings.
- Manage IT projects using current methodologies and tools.
- Pursue further studies or certifications in specialized areas of IT.



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Level 5

Higher International
Diploma In

Psychology

www.astiacademy.ac.ae



Program Overview

The **Level 5 Higher International Diploma in Psychology** at **ASTI Academy** provides students with a solid foundation in psychological theory, human behavior, and applied research, equipping them to pursue careers or further study in the field of mental health, education, counseling, and human development.

This program is ideal for individuals who are curious about how people think, feel, and behave in different settings—from the workplace and schools to families and communities. It explores the core areas of psychology, including cognitive, developmental, abnormal, and social psychology, while also introducing practical topics such as counseling techniques, mental health awareness, and applications of behavioral science.

Students benefit from a flexible learning format, assignment-based evaluations, and access to experienced faculty who guide learners through real-world case studies and psychological assessments. Whether you're a school graduate exploring a career in psychology or a working professional looking to understand human behavior better, this program is designed to fit your path.

Aims & Objectives

The psychology program is designed to introduce learners to the foundational theories, research methods, and practical applications that define the field of psychology. The aim is to equip students with a broad understanding of psychological principles and to foster critical thinking, emotional intelligence, and research awareness. Al Shabaka Technical Institutional Academy is permitted by KHDA (Permit Number: 60033) and internationally recognized. At ASTI, we focus on practical knowledge and human-centered learning because understanding people is the first step toward helping them.

Key Objectives:



To build a solid academic foundation in key areas such as developmental, cognitive, abnormal, biological, and social psychology.

To enhance students' ability to observe, interpret, and analyze human behavior, both at the individual and group levels.



To introduce research skills and ethical practices required for designing and evaluating psychological studies.

To encourage self-reflection, empathy, and effective communication, which are essential traits for professionals working in mental health, education, and human services.



To help students explore the connections between psychological theories and real-world issues, such as mental health disorders, addiction, motivation, learning, and interpersonal relationships.

To develop awareness of psychological support systems, community-based care, and early intervention strategies for emotional and behavioral challenges.



To prepare learners for academic progression into Psychology, Behavioral Science, or Social Work, or to pursue certification in counseling, therapy, or human resource roles.

Program Module

The Program offers a balanced curriculum that introduces students to the breadth of the field while emphasizing practical skills and real-life applications. Each module is carefully designed to build critical understanding and equip students with the tools to apply psychology in diverse environments. Through hands-on learning, software training, and practical assignments, students gain the tools to succeed in the architecture, engineering, and construction industries.

S. No	Unit Code	Unit Title	Credits
1	PSYCU001	Soft Skills	12 Credits
2	PSYCU002	Research Methodology	12 Credits
3	PSYCU003	Human Resource Management	12 Credits
4	PSY001	Applied Psychology	12 Credits
5	PSY002	Counselling Psychology	12 Credits
6	PSY003	Cognitive Psychology	12 Credits
7	PSY004	Forensic Psychology	12 Credits
8	PSY005	Conflict Theory	12 Credits
9	PSY006	Clinical psychology	12 Credits
10	PSY007	Psycho Diagnostics	12 Credits
11	PSY008	Development Psychology	15 Credits
12	PSY010	Educational Psychology	12 Credits
13	PSY011	Brain and Behavior	12 Credits
14	PSY017	Recent trends in Psychology	15 Credits
15	PSY018	Mental Health and Stress Management	15 Credits
16	PSY019	Culture and Human Behavior	15 Credits
17	SU001	Project	30 Credits

Program Specification

Qualification Title : Higher International Diploma In Psychology

Qualification Level : UK Level 5

Accreditation status : Accredited

Credit Equivalence : 240 Credits

Recognition : Internationally Recognized

Our Recognition



TVET

الجهة المانحة للمؤهلات في دبي
Qualifications and Awards in Dubai

This Program is
Permitted by KHDA

Assignment-Based Evaluation
– No Written Exams

Student progress is assessed through assignments and project work, eliminating the pressure of written exams and promoting continuous learning.

1

Fast-Track Completion in 9 Months (RPL)

With Recognition of Prior Learning (RPL), eligible students can complete the program in just 9 months, accelerating their career growth.

2

International Acceptance and Credibility

The psychology program is permitted by KHDA, and students may receive acceptance from the international awarding bodies.

3

Flexible Weekend & Online Classes

The curriculum is organised to fit around busy schedules, classes are available on weekends and online—ideal for working professionals and students seeking flexibility.

4

Supportive Learning Environment

From academic assistance to career counseling, you're supported every step of the way.

5

Affordable & Accessible Education

Quality education should be within reach for all. Our competitive fee structure enables students to pursue their academic and career goals without financial stress, offering flexible payment options.

6





Learning Outcomes

- Demonstrate knowledge of key psychological concepts, theories, and perspectives.
- Analyze human behavior and mental processes across various life stages and settings.
- Understand mental health issues and apply basic psychological support techniques.
- Apply research methods and ethical principles in psychological inquiry.
- Communicate psychological ideas effectively in written and oral forms.
- Reflect on their behavior, values, and attitudes in professional settings.
- Use psychological knowledge to support others in community, educational, or workplace environments.
- Progress to higher education in psychology, counseling, or social sciences.

School Counselor Assistant



Rehabilitation Program Assistant



Mental Health Support Worker



Behavioral Health Technician



Psychology Assistant



Human Resource Support Officer



Youth Program Facilitator



Community Outreach Coordinator





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Welding Technology Programme

Professional Certification

www.astiacademy.ac.ae



Program Overview

The Welding Technology Program at ASTI Academy offers a combination of theoretical knowledge and practical skills essential for a successful career in the welding industry. The program professionals aiming to upskill, this program covers various welding techniques, safety protocols, and industry standards. Students gain practical experience with modern equipment, preparing them for real-world applications in sectors like construction, manufacturing, oil and gas, and shipbuilding. With flexible learning options and globally recognized certifications, the program caters to the dynamic needs of the UAE and GCC job markets.

Aims & Objectives

The Welding Technology Program at ASTI Academy is organized by industry professionals with the technical and practical knowledge required to excel in welding and related fields. The program's primary aim is to bridge the skills gap in the UAE and GCC job markets by equipping learners with up-to-date training that reflects current industry demands.

Beyond the practical training, the program emphasizes soft skills such as problem-solving, attention to detail, critical thinking, and project management—competencies that are essential in real-world industrial settings. Students are also prepared to sit for international certification exams, enhancing their employability both locally and globally.

Key Objectives:



Equip students with proficiency in welding techniques such as MIG, TIG, SMAW, and GMAW.



Instill a strong understanding of welding safety, metallurgy, and blueprint reading.

Prepare students for industry-recognized certifications and immediate employment.



Foster critical thinking and problem-solving skills applicable to real-world scenarios.



Provide flexible learning paths to accommodate working professionals and diverse schedules.



Program Module

The program is structured into complete modules that blend theoretical knowledge with intensive practical training. Each module is carefully designed to build core competencies, from foundational principles to advanced welding applications, ensuring students are fully prepared for the diverse demands of the welding industry.

S. No	Unit Code	Unit Title
1	Chapter 1	Introduction to welding technology and safety measures
2	Chapter 2	Technical drawing and welding symbols
3	Chapter 3	Material selection and its properties
4	Chapter 4	Welding process and its types
5	Chapter 5	GAS/Brazing Practical
6	Chapter 6	ARC/SMAW Welding Practical
7	Chapter 7	TIG/GTAW Welding Practical
8	Chapter 8	Project & Final Review

Program Specification

Program Title : Welding Technology Programme

Program Type : Professional Certification Programme

Accreditation status : Accredited

Recognition : Internationally Recognized

Skills Taught



Practical Learning Approach

Our program combines theoretical foundations with practical training, ensuring that students gain real-world skills relevant to today's industry.

1

Assignment-Based Evaluation - No Written Exams

Student progress is assessed through practical assignments and project work, eliminating the pressure of written exams and promoting continuous learning.

2

Exposure to Advanced Tools

Train with tools and platforms commonly used in welding system design and coordination.

3

Expert Faculty from the Industry

Learn from qualified instructors with hands-on experience in design, engineering, and installation across major projects.

4

Flexible Weekend & Online Classes

The curriculum is organised to fit around busy schedules, classes are available on weekends and online — ideal for working professionals and students seeking flexibility.

5

Practical Training & Labs:

Access to real project case studies, estimation software, and construction drawings.

6

Affordable & Accessible Education

We believe quality education should be within reach for all. Our competitive fee structure makes it easier for students to pursue their academic and career goals without financial stress, with flexible payment options.

7





Learning Outcomes

- Demonstrate proficiency in various welding techniques.
- Apply safety protocols effectively in welding environments.
- Interpret and utilize welding blueprints and symbols.
- Understand the properties of different metals and appropriate welding methods.
- Operate modern welding equipment with competence.
- Meet industry standards and codes in welding practices.
- Adapt to technological advancements in welding processes.
- Prepare for certifications recognized in the UAE and internationally.

Welding Inspector



Welding Engineer



Fabrication Technician



Certified Welder



Welding Supervisor



Pipeline Welder



Welding Instructor





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Automotive Diagnostics Engineering Course

Professional
Certification

www.astiacademy.ac.ae



Program Overview

The Automotive Diagnostics Engineering Course at ASTI Academy is specifically designed for students, working professionals eager to specialize in the automotive service industry. With the rise of advanced vehicle technologies—from hybrid and electric vehicles to connected car systems—understanding how to diagnose and repair modern vehicles has never been more in demand. This dynamic program bridges theoretical fundamentals and hands-on practice, providing learners with the tools and techniques crucial for accurately identifying and troubleshooting vehicle issues.

The programme's relevance is heightened by the UAE's ongoing automotive growth, thanks to expanding infrastructure, smart mobility initiatives, and a boom in high-end automotive services. Graduates are positioned to excel in dealership service centers, independent garages, fleet management companies, and OEM technical roles.

Aims & Objectives

The Automotive Diagnostics Engineering Course aims to empower learners with the knowledge, skills, and confidence required to become proficient diagnostic technicians in today's automotive industry. The programme is committed to both technical mastery and professional development.

Flexible delivery—including evening classes, weekend labs, or intensive blocks—caters to both students and working professionals in the UAE region. With globally recognized certifications and a career-focused curriculum, the Automotive Diagnostics Program ensures graduates are workplace-ready from day one. Equip yourself with the skills to thrive in automotive service and repair, stay ahead in a technology-driven field, and drive your career forward.

Key Objectives:



Build a strong foundation in engine fundamentals, electrical systems, vehicle electronics, and communication networks such as CAN bus.



Introduce OBD-II protocols, emission control systems, and onboard diagnostic tools.



Teach fault code interpretation, wiring diagrams, sensor analysis, and functional testing methodologies.



Explore advanced vehicle safety systems—ABS, airbag control, traction control—and their diagnostic processes.



Equip learners with hands-on diagnostic skills using high-end software and scan tools.



Train students to accurately interpret fault codes and undertake precise vehicle repairs.



Emphasize industry-standard safety practices in workshop and road testing environments.

Program Module

The programme offers a structured, modular approach combining theory, lab practice, and real-world simulation. Each module is dedicated to advancing key competencies in vehicle diagnostics and ensuring learners gain a comprehensive skill set for modern workshops.

Program Specification

Program Title : Automotive Diagnostics Engineering Course

Program Type : Professional Certification Programme

Accreditation status : Accredited

Recognition : Internationally Recognized

Skills Taught



Practical Learning Approach

Our program combines theoretical foundations with practical training, ensuring that students gain real-world skills relevant to today's industry.

1

Assignment-Based Evaluation – No Written Exams

Student progress is assessed through practical assignments and project work, eliminating the pressure of written exams and promoting continuous learning.

2

Exposure to Advanced Tools

Train with tools and platforms commonly used in automotive system design and coordination.

3

Expert Faculty from the Industry

Learn from qualified instructors with hands-on experience in automotive design, engineering, and installation across major projects.

4

Flexible Weekend & Online Classes

The curriculum is organized to fit around busy schedules, classes are available on weekends and online—ideal for working professionals and students seeking flexibility.

5

Practical Training & Labs:

Access to real project case studies, estimation software, and construction drawings.

6

Affordable & Accessible Education

We believe quality education should be within reach for all. Our competitive fee structure makes it easier for students to pursue their academic and career goals without financial stress, with flexible payment options.

7





Learning Outcomes

- Use OBD-II tools and diagnostic software to read and interpret fault codes
- Analyze engine management and emission system data to identify inefficiencies
- Trace complex electrical circuits and resolve wiring faults
- Decode wiring diagrams, sensor outputs, and actuator behaviors
- Inspect and diagnose ABS, SRS, and other advanced safety systems
- Apply workshop safety protocols and professional service etiquette
- Deliver coherent diagnostic reports and communicate repair strategies





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Electrical Vehicle Engineering Course

Professional
Certification

www.astiacademy.ac.ae



Program Overview

The Electrical Vehicle Engineering Course at ASTI Academy is built for innovators ready to drive the future of sustainable mobility. Whether you're a fresh graduate, an automotive technician, or a working professional seeking to specialize, this program offers a tailored pathway into the rapidly expanding electric vehicle (EV) sector across the UAE.

Explore the key domains of EV technology—including electrical systems, battery management, electric motors, vehicle diagnostics, and charging infrastructure. Our curriculum blends engaging theoretical sessions with hands-on lab experiences, using cutting-edge EV platforms and diagnostic tools. You'll gain real-world exposure to live prototypes, battery systems, regenerative braking, and safety systems central to modern electric vehicles.

Aims & Objectives

At ASTI Academy, we support flexible learning options—combining evening classes, weekend labs, and intensive short runs—to fit busy schedules. Aspirants will be prepared for globally recognized certifications and are well-positioned for roles that contribute to decarbonizing transport, developing smart mobility solutions, and driving innovation in the EV field.

The Electrical Vehicle Engineering Course at ASTI Academy is thoughtfully curated to develop engineers who can design, maintain, and optimize EV systems with confidence and expertise. Our aim is to provide a learning experience that balances theoretical foundations with real-world application, preparing students for immediate employment or career growth in a dynamic industry.

Key Objectives:



Develop hands-on skills in EV diagnostics, repair, and preventive maintenance.



Interpret automotive electrical schematics, fault codes, and diagnostic reports accurately.



Apply best practices for EV safety, including high-voltage handling and emergency response.



Enhance soft skills — problem-solving, technical communication, and project coordination.



Foster adaptability to evolving EV advancements, battery technologies, and autonomous systems.



Prepare for industry-recognized certifications (e.g., OEM EV Specialist, BMS technician).

Program Module

The Electrical Vehicle Engineering Program at ASTI Academy is built around a modular structure that ensures students acquire both depth and breadth in the core areas of electric mobility. Each module combines theory, applied learning, and practical training, enabling students to master the complex systems and technologies powering today's electric vehicles.

S. No	Topics Name
1	Introduction to EVs
2	Introduction to Electrical and Electronics
3	Electric Motors for EVs
4	Electric Vehicle Conversion Design
5	Basics of Batteries
6	Battery Pack Design
7	Battery Management System
8	Charging Infrastructure
9	Hybrid Technology (Toyota)
10	Electric Vehicle Segment & Wiring Diagram
11	Hands-on Training

Program Specification

Program Title : Electrical Vehicle Engineering Course

Program Type : Professional Certification Programme

Accreditation status : Accredited

Recognition : Internationally Recognized

Skills Taught



Practical Learning Approach

Our program combines theoretical foundations with practical training, ensuring that students gain real-world skills relevant to today's industry.

Assignment-Based Evaluation – No Written Exams

Student progress is assessed through practical assignments and project work, eliminating the pressure of written exams and promoting continuous learning.

Exposure to Advanced Tools

Train with tools and platforms commonly used in electric vehicle system design and coordination.

Expert Faculty from the Industry

Learn from qualified instructors with hands-on experience in electric vehicle design, engineering, and installation across major projects.

Flexible Weekend & Online Classes

The curriculum is organised to fit around busy schedules, classes are available on weekends and online—ideal for working professionals and students seeking flexibility.

Practical Training & Labs:

Access to real project case studies, estimation software, and construction drawings.

Affordable & Accessible Education

We believe quality education should be within reach for all. Our competitive fee structure makes it easier for students to pursue their academic and career goals without financial stress, with flexible payment options.





Learning Outcomes

- Students will be able to explain the basic principles of electric vehicle technology, including the differences between internal combustion engines (ICE) and electric drivetrains.
- Students will be able to evaluate different types of battery technologies used in electric vehicles, including lithium-ion, solid-state, and emerging alternatives.
- Students will understand the various charging infrastructure options and the factors affecting their deployment and efficiency.
- Students will be able to assess the environmental and economic impacts of electric vehicles compared to traditional vehicles.
- Students will understand the role of government policy and market trends in the adoption and development of electric vehicles.

Battery & BMS Specialist



Trainer in EV technology



Vehicle Diagnostics Analyst



EV Maintenance & Repair Technician



EV Infrastructure Installer



Electric Mobility Research & Development Engineer



Regenerative System Design Engineer





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Air Conditioning and Refrigeration Engineering Programme

Professional Certification

www.astiacademy.ac.ae



Program Overview

With climate control and energy efficiency at the heart of today's residential, commercial, and industrial infrastructure, HVAC systems are no longer a luxury—they are a necessity. The Heating Ventilation & Air Conditioning (HVAC) Programme at ASTI Academy is designed to equip learners with practical skills and theoretical knowledge to excel in one of the fastest-growing technical fields globally.

This program covers the essential principles of HVAC systems, including system design, installation, maintenance, diagnostics, and energy management. Students will learn about the components and function of air conditioning units, ventilation ducts, chillers, pumps, and energy-efficient technologies.

Aims & Objectives

Ideal for aspiring HVAC technicians, facility managers, mechanical engineering students, or working professionals seeking upskilling, this course blends classroom learning with hands-on training in our fully equipped HVAC labs. Learners are guided through real-world case studies and industry-simulated tasks that prepare them to work confidently in the field. With a strong focus on safety, environmental regulations, and system optimization, this program helps students understand not just how to work with HVAC systems—but how to do so responsibly and sustainably.

The HVAC Programme at ASTI Academy is designed to develop qualified professionals who can install, maintain, and troubleshoot climate control systems that are vital to modern infrastructure. The aim is to equip learners with technical competencies, problem-solving ability, and industry-aligned knowledge to support safe and energy-efficient HVAC operations.

Key Objectives of the Program:



To introduce the fundamental concepts of heating, ventilation, and air conditioning, including thermodynamics, airflow, and system balancing.



To develop hands-on skills in the installation, testing, and commissioning of HVAC systems commonly used in residential, commercial, and industrial buildings.



To promote understanding of HVAC components and system configurations, including ductwork design, refrigerant cycles, chillers, cooling towers, compressors, and controls.



To build awareness of industry standards, safety codes, and environmental regulations, including handling of refrigerants and indoor air quality management.



To enable students to diagnose system issues and perform preventive maintenance, ensuring equipment runs efficiently, safely, and sustainably.



To introduce learners to modern HVAC technologies, including Building Management Systems (BMS), energy recovery systems, and smart climate control solutions.



To prepare students for the workforce through project-based assignments, equipment simulations, and exposure to site-level challenges.



To support academic and career progression, enabling graduates to move into supervisory roles or continue education in mechanical or energy engineering disciplines.

Program Module

The HVAC Programme at ASTI Academy offers a comprehensive and practical curriculum aligned with current industry demands. The modules are structured to provide both theoretical insight and real-world application across all aspects of heating, cooling, and ventilation systems.

S. No	Unit Code	Unit Title
1	Chapter 1	Introduction to HVAC and Thermal Refrigeration System
2	Chapter 2	Air Conditioning System
3	Chapter 3	HVAC Components and Equipment
4	Chapter 4	Chiller System
5	Chapter 5	Cooling and Heating Load Calculations (HAP)
6	Chapter 6	Installation, Testing, and Maintenance

Program Specification

Program Title : Air Conditioning and Refrigeration Engineering Programme

Program Type : Professional Certification Programme

Accreditation status : Accredited

Recognition : Internationally Recognized

Skills Taught



Practical Learning Approach

Our program combines theoretical foundations with practical training, ensuring that students gain real-world skills relevant to today's industry.

1

Assignment-Based Evaluation - No Written Exams

Student progress is assessed through practical assignments and project work, eliminating the pressure of written exams and promoting continuous learning.

2

Exposure to Advanced Tools

Train with tools and platforms commonly used in system design and coordination.

3

Expert Faculty from the Industry

Learn from qualified instructors with hands-on experience in hvac design, engineering, and installation across major projects.

4

Flexible Weekend & Online Classes

The curriculum is organized to fit around busy schedules, classes are available on weekends and online—ideal for working professionals and students seeking flexibility.

5

Practical Training & Labs:

Access to real project case studies, estimation software, and construction drawings.

6

Affordable & Accessible Education

We believe quality education should be within reach for all. Our competitive fee structure makes it easier for students to pursue their academic and career goals without financial stress, with flexible payment options.

7





Learning Outcomes

- Understand the operational principles of HVAC systems and their components.
- Design basic HVAC system layouts, including ductwork and piping.
- Install, commission, and maintain residential and commercial HVAC equipment.
- Diagnose and troubleshoot common faults using appropriate tools and techniques.
- Comply with safety standards, HVAC codes, and environmental best practices.
- Apply energy efficiency strategies and modern control technologies in HVAC systems.
- Communicate effectively in a technical team and interpret HVAC schematics and documentation.
- Prepare for technical roles or further studies in mechanical or building services engineering.

Maintenance Engineer (HVAC)



Energy Efficiency Consultant



Facilities Technician



HVAC Technician



HVAC Control System Technician



HVAC Design Assistant



HVAC Installation Specialist



Site Supervisor (HVAC)





Digital Marketing Management Course

Professional
Certification

Program Overview

This digital marketing management course at ASTI Academy is designed for individuals who want to build and upskill their knowledge and skills in digital marketing. Through a balance of theory, practical training, and real-world case studies, this program introduces you to essential digital marketing concepts, tools, and strategies used by professionals worldwide. Whether you're a student exploring digital marketing as a career, a small business owner aiming to promote your brand online, or a professional seeking to upskill, this course will help you understand the modern digital landscape and use it effectively.

Aims & Objectives

This program aims to provide learners with a clear understanding of how digital marketing works in today's fast-moving online world. By the end of the course, students will be able to plan, execute, and evaluate basic digital marketing campaigns across multiple channels, using the latest tools and AI-powered technologies.

Key Objectives:



Develop a comprehensive understanding of **digital marketing fundamentals** and strategies.



Discover how to craft compelling content and optimize your **social media** presence.



Gain hands-on experience in **SEO, Google Ads, and paid social** campaigns.



Understand how to measure and optimize **marketing performance** using analytics.



Explore the power of **AI tools** such as **ChatGPT** for content creation and marketing automation.

S. No	Modules
1	Fundamentals of Digital Marketing
2	Content & Social Media Basics
3	Paid Social Media Advertising
4	Search Engine Marketing (SEM)
5	Search Ads Campaigns
6	Display & Video Advertising
7	Search Engine Optimization (SEO)
8	Introduction to Digital Analytics
9	AI in Digital Marketing

Program Specification

Program Title : Digital Marketing Management Course

Program Type : Professional Certification Programme

Accreditation status : Accredited

Recognition : Internationally Recognized

Skills Taught



Why Choose ASTI Academy for Digital Marketing?

Industry-Relevant Curriculum:

Designed by marketing professionals and aligned with the latest digital trends.

1

Hands-On Learning:

Gain practical experience through assignments, projects, and campaign simulations.

2

Expert Trainers:

Learn directly from experienced marketers and digital strategists.

3

AI-Integrated Learning:

Master next-generation tools like ChatGPT for marketing innovation.

4

Flexible Schedule:

Ideal for students, professionals, and entrepreneurs looking to upskill.

5

Career-Ready Skills:

Equip yourself with real-world marketing skills to stand out in the job market.

6





Learning Outcomes

- Understand the key elements of a successful **digital marketing** strategy.
- Be able to plan and execute campaigns across **Google**, **social media**, and search platforms.
- Apply **SEO** and **SEM** best practices to drive website traffic and engagement.
- **Analyze performance** data and make informed marketing decisions.
- Use **AI tools** to **automate**, **optimize**, and personalize **marketing** campaigns.

Social Media Executive



Paid Ads Specialist



Digital Marketing Executive



SEO Specialist



Content Strategist



Performance Marketing Executive

