



Pepsico – Walkers Snack Foods Engineering Operations Apprenticeship

As part of their staff development scheme, Walkers encourage employees to upskill through training. Darshana wanted to enhance her skills so she can progress into a more technical role as a manufacturing technician for the company.

Darshana said: "I want to develop my skills and my manager at Walkers has been so supportive of this ambition. Every day I learn something new; there is no end to learning. Everyone in my class at Leicester College has been helpful and the tutors are great, each and every one of them."

Engineering and Motor Vehicle

Skilled engineers are amongst the most sought-after employees in the UK.

Skills are transferable throughout the work and can cover anything from fabrication, welding, mechanical, electrical and electronics engineering. We have a tradition of excellence in training for the Engineering industry and are an Engineering and Marine Training Authority (EMTA) approved training and assessment centre.

Leicester College has invested significantly in facilities for motor cycle, light vehicle and heavy goods vehicle training. We have a dedicated specialist engineering building at our Abbey Park Campus. It includes a body shop with paint spray booth, vehicle repair bays with ramps, an advanced diagnostic specialist area incorporating a rolling road brake testing facility. It is the perfect environment for your employees to learn and practise the skills they need to help your business grow.





Bradgate Bakery Engineering

Bradgate Bakery is one of the UK's largest sandwich manufacturers and encouraged four employees to attend College to gain the training they needed in Electrical Engineering.

Ewan Powell is in the first year of an Electrical Apprenticeship and said: "I've always been more of a hands-on, practical person so an apprenticeship suits me."

Balhar Singh is looking to further his education to HNC level and has ambitions to work as a Team Leader. He said: "This training has been good for me. It's given me knowledge in areas including working safely which will help me with further roles at Bradgate Bakery."

Engineering and Motor Vehicle Apprenticeships and Advanced Apprenticeships

Course Code: See below
Start Date: Flexible

Fees 3

For employees who are beginning a career within the Engineering or Motor Vehicle industry, Apprenticeships and Advanced Apprenticeships offer the perfect starting point to gain skills and qualifications which are vital to your business.

What is the training about?

An Apprenticeship is a work based training programme which allows employees to complement the skills that they learn, develop and use within the workplace.

What routes are available?

Engineering

Electrical/Electronic Engineering – Apprenticeship A1636
Electrical/Electronic Engineering – Advanced Apprenticeship A1715/6
Electrical/Mechanical Maintenance – Apprenticeship A1730
Electrical/Mechanical Maintenance – Advanced Apprenticeship A1731/2
Fabrication and Welding – Apprenticeship A1270
Fabrication and Welding – Advanced Apprenticeship A1271/2
Mechanical and Production Engineering – Apprenticeship A1214
Mechanical and Production Engineering – Advanced Apprenticeship A1720/1
Technical Support – Apprenticeship A8164
Technical Support – Advanced Apprenticeship A8012

Motor Vehicle

Auto Electricians – Apprenticeship A2897
Auto Electricians – Advanced Apprenticeship A6784
Heavy Goods Vehicle Maintenance and Repair – Apprenticeship A7951
Light Vehicle Maintenance and Repair – Apprenticeship A0782
Light Vehicle Maintenance and Repair – Advanced Apprenticeship A0602
Motorcycle Maintenance and Repair – Apprenticeship A8076
Motor Vehicle Body – Apprenticeship A1351
Motor Vehicle Body – Advanced Apprenticeship A1353
Motor Vehicle Paint and Refinishing – Apprenticeship A6713
Motor Vehicle Paint and Refinishing – Advanced Apprenticeship A1357

"97% of employers said they would recommend Leicester College to others"

Employer Survey 2011

Who should attend?

Apprenticeships are suitable for new employees in the Engineering and Motor Vehicle sectors. Advanced Apprenticeships are suitable for those who have completed an Apprenticeship or those who have achieved appropriate GCSEs and are undertaking a wider range of work activities within their job role.

Training outcomes

On completion employees will achieve:

- an NVQ in their chosen occupation (NVQ level 2 for Apprenticeships and NVQ level 3 for Advanced Apprenticeships)
- Technical certificates/underpinning knowledge relevant to their occupation and level of work
- Functional Skills in English, maths and ICT.

Duration

Apprenticeships typically take 12 to 24 months to complete. Advanced Apprenticeships typically take three years to complete except where progression is from an Apprenticeship which allows the advanced qualification to be completed in one to two years.

Assessment

Combination of practical assessment and assessment of competency to carry out work tasks. Multiple choice exams and on-line assessments plus a portfolio of work based evidence.

Progression

On completion of an Apprenticeship employees can progress onto an Advanced Apprenticeship. On completion of an Advanced Apprenticeship employees can progress onto an HNC.

If you are an employer looking to recruit an Apprentice, we can provide you with access to a pool of potential employees. Please call 0116 224 2240 for more details.

About our fees

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Electrical/Electronic Engineering BTEC level 3 Diploma

Course Code: A0783

Fees £1,170

Start Date: 5 September 2011

What is the training about?

The training gives clear technical background and will allow progression to careers such as Field Service Engineer, Test and Repair Technicians as well as careers in Production and Maintenance environments.

Who should attend?

This training is recommended for employees currently working in the Electrical and Electronic Engineering industries.

Training outcomes

12 units must be completed for a certificate. Five core units (the project is a double units) plus six vocational.

The Core Units are:

- business systems for technicians
- communications for technicians
- mathematics for technicians
- electrical and electronic principles
- project work (counts as two).

Vocational units are:

- electronic devices and circuits, PLCs
- digital electronics
- further electrical principles
- further electronics
- applications of analogue electronics
- electronic technology, electronic applications
- electronic CAD and analysis
- three phase systems
- control technology, microprocessor systems.

Duration

One day per week for two years.

Assessment

Assessment is by written tests, project work and practical assignments.

Progression

Employees can progress to the HNC Electrical/Electronic Engineering or Engineering Degree programme.

Manufacturing Engineering BTEC level 3 Diploma

Course Code: A0987

Fees £1,170

Start Date: 6 September 2011

What is the training about?

This training has been designed to meet Engineering Competency Standards. It is designed to give a firm foundation in practical and theoretical elements. Units include:

- business systems for technicians
- engineering project (double award)
- communications for technicians
- mechanical principles and applications
- maths for technicians
- computer-aided manufacturing (CAM)
- computer-aided drafting (CAD)
- computer numerical control (CNC) of machine tools
- manufacturing planning
- quality and business improvement
- properties and applications of engineering materials
- electro, pneumatic and hydraulic systems and devices.

Who should attend?

For employees wishing to start as a technician in the manufacturing industry.

Training outcomes

Employees should be able to apply advanced practical skills to the workplace in a skilled capacity.

Duration

One day per week, 9am to 6.30pm for two years.

Assessment

Units are assessed either through phase tests or assignments.

Progression

Completion can lead directly to a Higher National Certificate and from this onto a Higher National Diploma and then through to a Degree in Engineering.

**Outstanding support,
care and guidance
for learners**

Ofsted Inspection January 2011



Engineering (Mechanical/Electrical) HNC

HNC – Higher National Certificate

Course Code: A0336 Fees £750
 Start Date: 7 September 2011

What is the training about?

It is designed to enable engineers within full-time employment to continue their studies at higher level whilst maintaining a career path.

Who should attend?

Engineers within full-time employment.

Training outcomes

To achieve the HNC in engineering eight units must be completed to an acceptable standard.

Mandatory core units:

- analytical methods for engineers
- engineering science
- project design.

Common units:

- business management techniques for engineers,
- management projects.

Specialist units mechanical:

- mechanical principles
- application pneumatics and hydraulics
- materials engineering.

Specialist units electrical/electronic:

- electrical and electronic principles
- programmable logic controllers
- electrical power
- combinational and sequential logic.

Duration

One day per week, 9am to 7.30pm for two years.

Assessment

Continuous.

Progression

Employees may opt to continue to a full degree programme or top up to the HND in Engineering at the College. The HNC could provide exemption from the first year of a degree.

Engineering HND

HND – Higher National Diploma

Course Code: A0046 Fees £750
 Start Date: 6 September 2011 Duration: One years

What is the training about?

It is designed to enable engineers within full-time employment to continue their studies at a higher level whilst maintaining a career path.

Who should attend?

Engineers within full-time employment.

Training outcomes

Employees will need to complete the eight units within the HNC programmes plus further units as indicated.

Common units:

- engineering design
- quality assurance and management
- mechatronic systems
- further analytical methods for engineers
- quality and business improvement techniques.

Specialist units (mechanical):

- strength of materials
- dynamics of machines
- design for manufacture.

Specialist units (electrical/electronics):

- further electrical power
- electronic principles
- application of power electronics
- electrical electronic and digital principles.

Duration

Two days per week, 6pm to 9pm over two years.

Assessment

Continuous.

Progression

On successful completion of the training employees may continue to a full degree programme. The HND should provide exemption to the first two years of a degree.



Abrasive Wheel

Course Code: A6426
Start Date: Flexible

Fees £120

What is the training about?

Employees wishing to fully apply abrasive wheel working practices safely.

Who should attend?

For delegates who wish to become competent in the correct working practices, maintenance and use of abrasive wheel equipment safely.

Training outcomes

It consists of an understanding of abrasive wheel characteristics, abrasive wheel marking system, safety in grinding operations, mounting abrasive wheels, truing and dressing wheels, setting guarding and balancing wheels. There is a PPE (Personal Protective Equipment) requirement when operating and maintaining abrasive wheel equipment.

Duration

One day.

Assessment

Continuous assessment.

Progression

Other training provision in the use of work equipment regulation PUWER (Provision and Use of Work Equipment Regulations) training and assessment requirements.

Basic Electrical Safety

Course Code: A8308
Start Date: Flexible

Fees £300

What is the training about?

It provides initial electrical engineering safety practices and procedures aimed at Electrical level 2 Apprentices and mechanical engineers wishing to enhance their electrical knowledge and practical competence.

Who should attend?

For delegates who wish to develop a firm foundation in Electrical Safety.

Training outcomes

- Introduction to Industrial Electrical engineering safety
- AC and DC voltage and current theory, Ohms law
- circuit and personal protection
- circuit configuration including schematic and wiring symbols and diagrams
- basic relay logic latching circuits
- basic motor control circuits
- electrical fault analysis

Duration

Twenty Five hours attendance at College.

Assessment

Throughout the training practical experience will be gained followed by both a knowledge based and practical assessment.

Progression

Progression is gained through other formally identified Electrical based bespoke programs and NVQ level 2 and 3 in company development.



Basic Hydraulics

Course Code: A8309
Start Date: Various

Fees £300

What is the training about?

It is designed to arm the employee with the basic knowledge and practical experience of Hydraulic circuits and components including flow, pressure and sequencing.

Who should attend?

For employees who wish to apply basic hydraulic technology and principles.

Training outcomes

- Understanding the basic principles of hydraulic systems,
- Pumps, flow and pressure relationship.
- Pascal's Law.
- Understanding hydraulic components, symbols and circuit diagrams.
- Principles and practices by designing and building hydraulic circuits.
- Applying fault diagnostics to hydraulic systems.

Duration

Twenty Five hours attendance at College.

Assessment

Assessment will be through continuous monitoring and a final practical and theory test.

Progression

Advanced Hydraulic application training which is developed to suit individual requirements.

Basic Pneumatics

Course Code: A8311
Start Date: Various

Fees £300

What is the training about?

It is designed to arm the employee with the basic knowledge and practical experience working on pneumatic circuits and components.

Who should attend?

For employees who wish to understand and apply basic pneumatic technology.

Training outcomes

- Understanding high pressure air production systems.
- Demonstrate knowledge and understanding of pneumatic components.
- Symbols and circuit diagrams.
- Demonstrate an understanding of fluid logic components and designs.
- Application of the principles through the designing and building of pneumatic circuits.
- Applying fault diagnostics.

Duration

Twenty five hours attendance at College.

Assessment

Assessment through continuous monitoring and final practical and theory based exam.

Progression

Advanced pneumatic application training which is developed to suit individual requirements.

“Completing the qualification in the workplace has huge benefits. I can continue working while training.”

Anthony Dakin, Davies and Stevens Automobile Engineers.



Basic Programmable Logic Controllers

Course Code: A8312
Start Date: Various

Fees £300

What is the training about?

Provides employees with the basic knowledge and understanding of Rockwell, Siemens or Mitsubishi operations, maintenance, design and troubleshooting PLC based control systems.

Who should attend?

Employees who wish to understand basic PLC principles and practices.

Training outcomes

- Identify the main components of a PLC control system.
- Describe the flow of information/data through a PLC System.
- Upload/download software applications.
- Interpret simple ladder logic programs.
- Modify control parameters such as timers and counters.

Duration

Twenty Five hours attendance at College.

Assessment

Exams and continuous assessment.

Progression

Leicester College fully bespoke advanced PLC application training.

Coded Welding Certification

Course Code: A7163
Start Date: Various

Fees £300

What is the training about?

The course is designed to deliver a BS 4872 standard in either Metal Active Gas (MAG), Manual Metal Arc (MMA) or Tungsten Inert Gas (TIG) Welding Practices.

Who should attend?

For employees who wish to gain a BS 4872 Welding Qualification.

Training outcomes

The training outcomes will be dependent on the employees current ability and experience and will include:

- welding Safety
- welding equipment settings and parameters
- welding positions (horizontal – vertical – overhead).

Duration

Twenty Five hours attendance at College.

Assessment

Continuous practical training before the completion of a test piece assessment to BS4872 Standards.

Progression

Further Coded Welding to BS EN 287-1 and ASME 1X Standards.





2D Computer Aided Design City & Guilds level 2

Course Code: A1689
Start Date: 5 September 2011

Fees £470

What is the training about?

An introduction to all aspects of 2D CAD and its uses within mainly an engineering environment but also other vocational areas. It looks at the default options of AutoCAD to enable employees to draw, edit and plot mechanical drawings.

Units include:

- file management
- use of draw commands
- use of modify commands
- default text
- default dimensioning
- plotting from model space.

Who should attend?

Employees who have little or no previous experience of 2D CAD systems.

Training outcomes

On completion, employees should have developed the technical ability to utilise AutoCAD to draw, edit and plot mechanical drawings.

Duration

Two hours per week for 36 weeks.

Assessment

Practical assignment and multiple-choice exam.

Progression

After studying basic CAD operations this allows progression to year two 2D CAD and eventually to 3D CAD courses.

Computer Aided Design City & Guilds level 3

Course Code: A0340
Start Date: 6 September 2011

Fees £470
Duration: 36 weeks

What is the training about?

Aimed at employees who have some experience in the use of a 2D CAD system but would like to extend that knowledge leading towards 3D CAD.

Who should attend?

Employees who have little or no previous experience of 2D CAD systems.

Training outcomes

- construction of 3D wire frame models
- manipulation and creation of user coordinate systems
- creation of 3D Surface Models
- creation of 3D Solid Models
- use of Paperspace Plotting
- operational efficiency and inquire commands

This will result in a competence in producing three dimensional drawings from both 3D surface and solid models.

Duration

Two hours per week over 36 weeks.

Assessment

Practical assignment and multiple-choice exam.

Progression

Allows employees to progress in a CAD environment extending their 2D skills.

**"A very good College,
with many outstanding
features"**

Ofsted Inspection January 2011

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3D Computer Aided Design City & Guilds level 3

Course Code: A2674 Fees £470
Start Date: 8 September 2011 Duration: 36 weeks

What is the training about?

It enables employees to learn commands needed to work in the 3D environment.

Units include:

- construction of 3D wireframe models
- manipulation and creation of user coordinate systems
- creation of 3D surface models
- creation of 3D solid models
- use of paperspace plotting
- operational efficiency and inquire commands.

Who should attend?

Employees who are experienced in the use of a 2D CAD system and want to progress onto 3D CAD.

Training outcomes

On completion, employees should have the competence to produce three dimensional drawings from both 3D surface and solid models.

Duration

One day per week 5.30pm to 8pm for 36 weeks.

Assessment

Assessment consists of City and Guilds practical assignments, plus a short multiple choice test.

Progression

As this is the highest level CAD certificate, employees who successfully complete can enjoy a wide range of career opportunities using 3D AutoCAD. Additionally, further training opportunities in engineering are available.

Computer Aided Manufacture (CAM) and Computer Numerical Control (CNC) City & Guilds level 2

Course Code: A0338 Fees £500
Start Date: 5 September 2011 Duration: 36 weeks

What is the training about?

It is about formal teaching sessions and tutorials in order to develop and improve the employees CNC tool setting skills. The course is based on industrial standard software and equipment. In training assessments are designed to provide progression as well as preparation for the externally set assignments.

Who should attend?

Employees who need to develop and improve their CNC tool setting skills. Employees will need introductory CNC (OCN) or relevant industrial experience. Any previous experience of CAD/CAM, CNC machining or manual machining would be an advantage.

Training outcomes

On completion, employees should have developed basic CNC tool setting skills which they can apply in the workplace.

Duration

One day per week 5.30pm to 8pm for 36 weeks.

Assessment

In training assessments are designed to provide progression as well as preparation for the externally set assignments.

Progression

Success will allow progression to programming and advanced programming courses such as the level 3 Computer Aided Manufacturing (2D).



Automotive Refrigerant Handling level 3 Award

Course Code: A9701
Start Date: Flexible

Fees £125

What is the training about?

It is for technicians who work with air-conditioning systems for cars and car derived vans who must have a required refrigerant handling qualification which fulfils the European Union F Gas Regulation.

Who should attend?

MAC technicians with experience of working with cars and car derived vans.

Training outcomes

Successful completion provides a DEFRA approved qualification. This fulfils the scope of Commission Regulation EC842-2006 and Annex to Commission Regulations EC307-2008 for Gas.

Duration

One day.

Assessment

Continuous assessment.

Progression

Delegates can also choose to study the Automotive Air Conditioning and Climate Control level 3 Certificate.

Automotive Master Technicians level 4 Diploma

Course Code: A7220

Fees £690

Start Date: 7 September 2011

What is the training about?

It is designed to enable experienced technicians to become skilled in addressing less routine technical issues. It meets Motor Vehicle Competency Standards and the requirements of employers. It is designed to extend both practical and theoretical knowledge, including:

- advanced light vehicle technology
- advanced diagnostic techniques
- communication and liaison techniques
- providing personal and technical support to vehicle technicians.

Who should attend?

Employees who are competent at level 3 or who have substantial automotive experience, and who wish to extend their skills into more specialised technical maintenance and repair work.

Training outcomes

By the end of the training, employees should be able to apply advanced theoretical and practical skills to the workplace in a skilled capacity.

Duration

Four hours a week over 36 weeks.

Assessment

A multiple-choice exam plus on-programme assessment. Practical elements are tested in College workshops.

Progression

This qualification helps to prepare employees for the Master Technician Foundation Degree, IMI certificate in management or ATA accreditation.