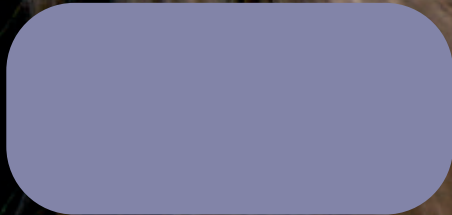


**POWERING EDUCATION
ENRICHING LIVES**





The New Engineering Foundation is an independent charity and provider of strategic educational improvement services with a particular focus on Science, Engineering and Technology



Over the last 6 years our Foundation has helped organisations and colleges to:

- Reduce skills gaps
- Better respond to organisational needs
- Adjust to changing economic environments

NEF has pioneered a number of national and international initiatives in such areas as:

- Professional development
- Innovation management, and
- Knowledge and Technology Transfer activities

The Foundation has also supported over 200 Further Education (FE) colleges in the UK through grants. Our work has engaged over 350 national and multinational companies and employer organisations. The results of our programmes have positively impacted over 150,000 learners and some 1000 academics.



Challenges and opportunities

The key challenges facing the learning and skills sector include:

Specialisation

Specialist areas of provision will have to be identified and developed by providers in the learning and skills sector if they are to remain competitive and viable into the future; such a strategy will also enable better collaborative partnerships to emerge;

Innovation

Extending and embedding innovation and knowledge and technology transfer activities in the learning and skills sector is essential if the sector is to become the 'market maker' for micro and small businesses in new and emerging areas such as low carbon;

Inventing the future, not reacting to the past

The learning and skills sector tends to react to the here and now, instead of generating the skills for tomorrow which are driven by economic and technological advances;

Enterprise

Increasing enterprise activity in the learning and skills sector to encourage more young people to seriously consider starting up a new business;

Civic leadership

The benefits of 'new public management' are clear, yet a radical new model that emphasises the role civic leaders (such as college principals/directors) can play in tackling matters for the common good, and driving positive continuous socio-economic impact, needs to be greater explored.



Our services arm

NEF offer cutting edge educational products and innovative tools and solutions to individuals, businesses and organisations engaged in learning and training to improve their quality and delivery of education systems. We have the capability to develop bespoke solutions that correspond to our clients' economic, local and cultural contexts. The whole range of our know-how is available on our web site: www.thenef.co.uk.

NEF Services

NEF's independent and strategically focused approach to solutions development makes it a compelling provider of integrated solutions. NEF uses its multi-disciplinary knowledge base and extensive experience to provide a range of creative and practical solutions that achieve measurable performance. Our innovative and cost-effective solutions include:

- Accreditation
- CPD solutions
- Curriculum development
- E-learning turnkey development
- Programme design & delivery
- Research studies
- Work-based learning

CPD Solutions

NEF can help you design and deliver effective CPD (Continuing Professional Development) processes that capture your needs to ensure:

- Compliance with statutory or regulatory body requirement
- Progression and recognition of your training and development
- Distinctiveness in talent development

Programme design & delivery solutions

NEF have led the design, development, delivery and monitoring of a number of programmes and national initiatives that focused on addressing specific national or sector need. For example, our Industrial Fellowship Scheme is a national initiative that supports the professional development of a large number of STEM lecturers from across the learning and skills sector. Another example of NEF leading the development of national programmes includes the development of 11 Knowledge and Technology Transfer Nodes across many economic regions to address specific business needs. NEF offers a 'total solution' to programme design and delivery lifecycle. This includes: management framework, gap assessment, programme design and development, piloting and impact analysis as well as communication and dissemination.

Research studies

NEF undertakes and commissions research studies to provide Government departments and organisations with evidence-based information to achieve their goals.

We have a well established reputation for delivering research studies that address complex behavioural, social and economic issues that often have resulted in policy reforms as well as sector and organisational improvements. Examples of such studies include:

- Freeing Colleges from Direct State Control
- The Low Carbon Task Force
- Emerging Technologies: Emerging Markets; Are you ready for the Opportunities?
- The Role of the Modern Class of Technicians
- Knowledge and Technology Transfer in Further Education

NEF Assured®

NEF Assured is the “Industry-specific standard” for assuring deliverers of training and education in a variety of industry sectors. National Skills Academies such as NSA Nuclear has adopted NEF Assured as its training assurance standard for use with its sector companies (e.g. Magnox North).

NEF Assured stretches an organisation’s commitment to continuous improvement and provides a cost-effective means of benchmarking and gaining consistency of quality in training and education delivery.

In undertaking NEF Assured, an organisation can ensure that investment in training and development delivers a positive impact directly on business objectives and performance

Masterclasses and Briefings

These events provide technical professional updates for individuals working in the learning and skills sector. Masterclasses held at industrial sites and delivered by practitioners give up to the minute knowledge and unique hands-on experiences across a range of emerging technologies.

Attendance on a Masterclass is worth 6 Continuous Professional Development (CPD) points which can be used towards professional registration.

Briefings provide an opportunity for individuals to gain clarity and put into context the policy changes and trends that affect workforce development and training.



NEF Academy

NEF Academy offers a number of specialist training and work-force development programmes that aim to support employers and employees, particularly in areas of new and emerging technologies such as low carbon and advanced manufacturing.

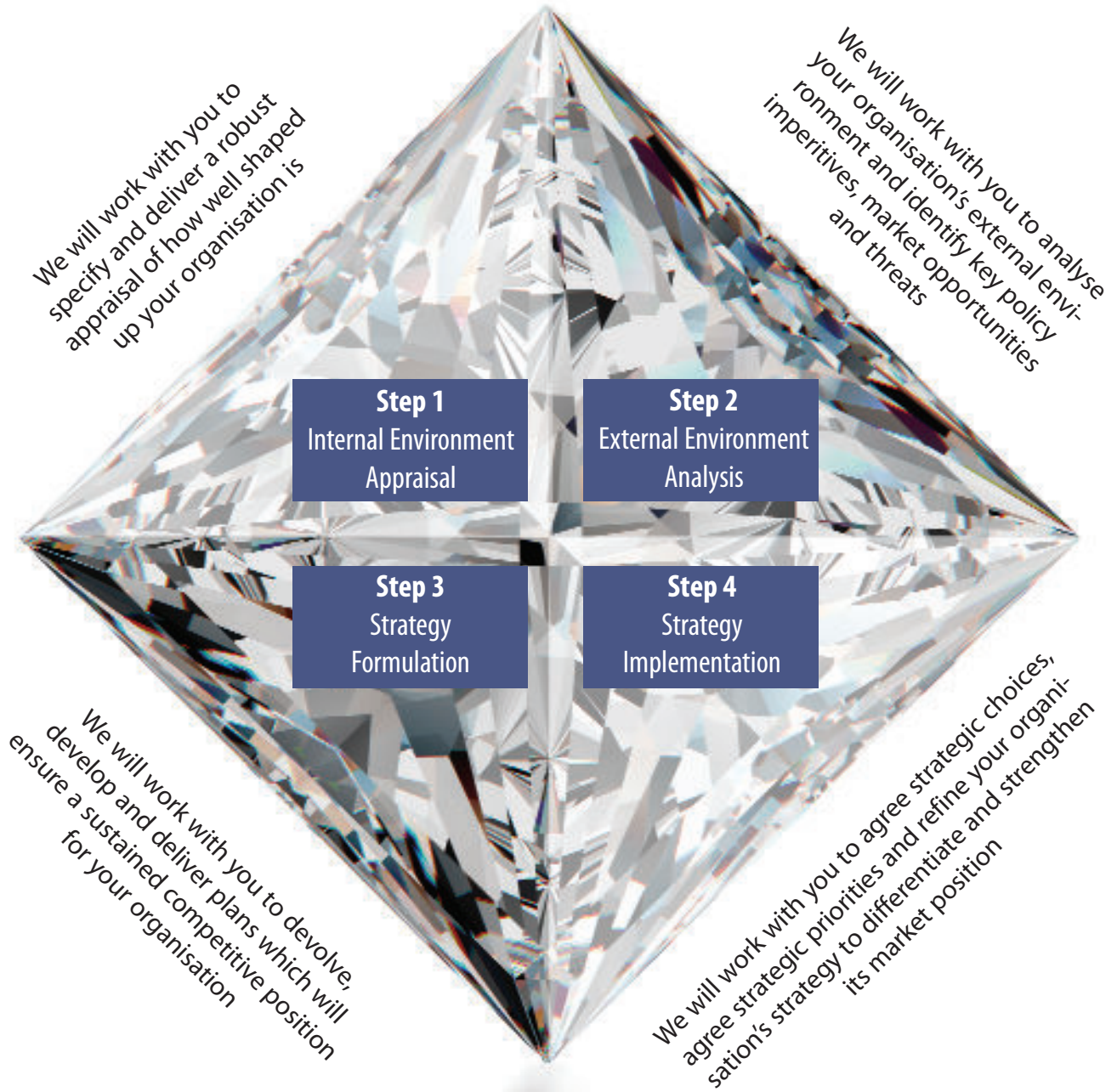
Under NEF Academy the following is offered:

Apprenticeship Induction programme
Certified Technologist programmes
CPD courses
Foundation degrees

NEF Diamond[®]

In a dynamic economic climate, organisations need to be agile and responsive to maintain market leadership. NEF Diamond is a strategic approach that enables organisations to review their capability and market, adapt to overcome challenges, and reposition to take full advantage of market opportunities to drive profitability and growth. NEF Diamond as a change management and impact strategy takes the organisation through a four step process covering internal review, external market analysis, strategy formulation and implementation, as shown on the right.

NEF Assured sits at the heart of NEF Diamond to ensure consistency and quality provision that is benchmarked against sector expected standards. NEF Diamond can be applied to provide incremental or step change, reflecting organisational needs and vision.



Tools and Resources

NEF has developed a range of tools and resources to assist organisations in improving capability and performance in knowledge and technology transfer, leadership and management and innovation. Examples of tools available:

Knowledge and Technology Transfer Profile Builder

Engaging Innovation

Horizon Scanning

Innovation Action Plan



Want to stay ahead of the game?

The economic, business and technology environment is changing rapidly and in so many directions. NEF frequently conducts research studies and undertakes horizon scanning activities to inform and support learning and skills providers to

develop their talent to achieve excellence and market differentiation. The basis for our success is the quality of our experienced practitioners and our ability to meet the individual requirements of an organisation.

Examples of participating companies

Airbus UK
Alstom Power
AMEC
Augusta Westland Ltd
Babcock Infrastructure Services
BAE Systems
BASF
Bentley
BMW
BNFL
BP
British Gas
BT
Caterpillar
CCRLC Daresbury Laboratory
Centrica PLC
FlyBe
Ford Motor Company
GE
GKN
Goodrich Actuation Systems Ltd
GSK
Heliwest Ltd
Heysham Nuclear Power Station
Indesit
Industrial Automation Ltd
Jaguar
JCB
Lawday Engineering
Lely UK
Lever Faberge Limited
Leyland Trucks Ltd
LJ Group
Lockheed Martin UK
Logica
Marshall Aerospace
McLaren Racing
McVities
Messier-Dowty
Nissan Motor Manufacturing (UK)
Philips Electronics UK Ltd
QinetiQ
RailTrack
Rapid Electronics Ltd
Rolls-Royce
Siemens Industrial Turbo
Southern Water
Tesco
Thales UK plc
The Boots Group Plc
TNT Aircraft Maintenance
Toyota Motor Manufacturing (UK)
Transco Plc
Unilever
Vauxhall Motors
Vodafone Group Plc
VT Group plc (Now Babcock's International Group)

Examples of participating colleges

Accrington & Rossendale College
Barnet College
Bedford College
Blackburn College
Bradford College
Bridgwater College
Brooksby Melton College
Burnley College
Burton College
Carlisle College
Carshalton College
Central Sussex College
Chesterfield College
City College Brighton and Hove
City College Plymouth
City of Sunderland College
City of Wolverhampton College
College of North West London
Cornwall College
Dearne Valley College
Derby College
Doncaster College
East Riding College
Exeter College
Fareham
Forth Valley
Gateshead College
Grantham College
Hastings College
Henley College
Hertford Regional College
Hull College
Kendal College
Leeds College of Building
Leicester College
Lowestoft
Merton College
MidKent College
Nelson & Colne College
Newcastle College
Newham College
North Highland College
Northampton College
Northbrook College
Oaklands College
Oldham College
Oxford and Cherwell
Plymouth College
Reaseheath College
Redcar & Cleveland College
Sheffield College
South Devon
Southgate College
St Helens College
Stafford College
Stockport College
Warwickshire College
Yeovil College

The background features a vibrant gradient from deep red on the left to bright yellow on the right. Overlaid on this are several glowing, wavy lines in shades of purple, pink, and yellow. Small, bright starburst effects and circular bokeh patterns are scattered throughout the scene, creating a sense of dynamic energy and light.

NEF

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