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12D Sector Scheme for Installing, Maintaining and Removing Temporary Traffic Management on Rural and Urban Roads

WHAT IS THE LANTRA HIGHWAYS SECTOR SCHEME?

National Highways Sector Schemes are quality management schemes designed to ensure that the installation of traffic management is undertaken to industry and nationally recognised standards.

As part of this process, it ensures you have a properly trained and competent workforce.

They specify the training and assessment operatives must have to ensure they can work safely and to the highest standard in traffic management, and:

- Provide clear safe working practices and procedures
- Provide an industry benchmark
- Provide a basis for continuous improvement
- ▶ Focus on quality

Sector Schemes are developed within an ISO 9001 framework in partnership with key organisations in the highways industry.

WHO IS THE TRAINING SUITABLE FOR?

The scheme provides training for, and assessment of, competence required to work on or near rural or urban roads. This can include construction workers, fence installers, traffic management operatives, and highway inspectors. It is the employer's responsibility to ensure the competency of their employees and that their skills and knowledge are maintained.

WHY IS SECTOR SCHEME TRAINING NEEDED?

It is intended that highway authorities that use the Specification for Highway Works (SHW) as the basic document for procuring highways work will require compliance with ISO 9001 and the Sector Scheme 12D Document. It is recommended that other Highway Authorities should adopt the scheme as a standard requirement.

National Highway Sector Schemes are mandatory for Highway Agency contracts and existing suppliers should demonstrate compliance with the requirements of ISO 9001 and the sector scheme document as part of their continuous improvement within their ISO 9001 registration.

It is recommended that Clients/Highway Authorities acknowledge the requirements of sector scheme 12D as a contract requirement.

Where it is not a contractual requirement for an organisation to be registered in accordance with the scheme document, then the training, assessment and registration of individuals as detailed in the scheme document should still be considered a requirement. For instance this could apply to occasional or seasonal workers.

It is necessary for Clients/Highway Authorities to ensure that all those involved in temporary traffic management operations are appropriately trained and skilled, whether or not they are directly employed. The modular training scheme described in the scheme document is designed to cater for the various alternative situations, ranging from the employment of a lone worker cutting hedges to a traffic management contractor for a major highway contract.

For the Sector Scheme to achieve its objectives it is essential that clients, either directly or via the agency and individuals they employ, that the requirements of the scheme document are complied with. This includes ensuring that the TTM organisations, employed directly or indirectly as sub contractors, are registered to the Sector Scheme, and that all TMOs are appropriately trained and skilled however the latter are employed.

Implementation of the specific requirements relevant to the work in hand will be at the discretion of individual employers who are strongly recommended to consider this when carrying out risk assessments in respect of the competency of their workforce and the safety of the general public.

Courses Available

Scheme Training Unit (Assessment Module)	Unit Name	Number of Days for Training & Assessment	Pre-requisites
TTMBC	Temporary Traffic Management Basic	½ Day training course; End of course test	None
T1(M1)	Registered Moving Works Operative (MWO)	½ Day training course; End of course test	TTMBC
T1 (M1) + T2 (M2)	Static Works on Single Carriageways including all forms of Traffic Control (except multi-phase traffic signals)	T1 (M1) – ½ Day training course; End of course test T2 – ½ Day training course; End of course test (M2) – Min. 1 day centre based + Min. 2 days on-site assessments	(M1) before taking T2 or (M2)
T3 (M3)	Static works traffic management on dual carriageways restricted to 40mph or less	T3 − ½ Day training course; End of course test (M3) − Min. 3 days on-site assessments	(M1) & T2 before taking T3 (M1) & (M2) before taking (M3)
T4 (M4)	Convoy Working	T4 − ½ Day training course; End of course test (M4) − Min. 1 Day on-site assessments	(M1) & T2 before taking T4 (M1) & (M2) before taking (M4)
T5 (M5)	Multi-phase Traffic Signals	T5 – ½ Day training course; End of course test (M5) – Min. ½ Day centre based + Min. 1 Day on-site assessments	(M1) & T2 before taking T5 (M1) & (M2) before taking (M5)
T6 (M6)	Registered Lead Traffic Management Operative	T6 (M6) – 2 Day training course; End of course test	(M1) & (M2)
T7 (M7)	Managers & Client Officers	T7 (M7) – 2 Day training course; End of course test	None
TMCE	Traffic Management for Community Events	1 Day training course; End of course test	None
TMVW	Traffic Management for Verge Workers	½ Day training course; End of course test	None

Temporary Traffic Management Basic Course

TTMBC: ½ Day Training

INTRODUCTION

This ½ day course has been designed for those new to temporary traffic management.

WHO SHOULD ATTEND

This course is for all persons starting work for the first time in the temporary traffic management industry, and those persons that DO NOT hold any NHSS 12A/B/C/D registration cards/certificates.

It is the first step for all such persons following specific training programmes detailed in NHSS 12A/B, 12C and 12D. The course is universal across all NHSS 12 schemes.

PRE-REOUISITES

There are no pre-requisites for this course.

AIM

To provide delegates with the necessary technical knowledge and skills to start work in the temporary traffic management industry.

OBJECTIVES

On completion of this course learners will be:

- Aware of the relevant codes of practise and other associated documentation when involved in traffic management
- Aware of Sector Schemes
- Understand the QA process and NHSS documents
- Aware of the different types of roads across the UK road network
- Aware of which roads/works are covered by which NHSS document
- Aware of the different classifications of 'road users' i.e. pedestrians, horse riders, cyclists, etc
- Understand the different terminology used in the TTM industry in relation to different roads
- Understand the process(es) required to become a qualified Operative and obtain a skills registration card, plus ongoing training to Supervisor level

- Aware of Health and Safety requirements including risk assessments and method statements
- Have an understanding of the variety of TTM equipment and the basic principles of its use
- Understand what constitutes a safety zone
- Aware of the general Personal Protective Equipment (PPE) requirements
- ▶ Understand crossing the carriageway HSE CIS53
- Aware of the different types of vehicles used in TTM and where they are used
- Understand the environment where learners are expected to work
- Aware of the safe way to enter/exit a site
- Aware of the need to maintain sites, and what is involved
- Know how to deal with accidents and emergencies within the works area

COURSE CONTENT

- Quality assurance and NHSS 12
- Terminology
- ▶ Health & Safety
- Equipment
- Safety Zones
- Basic Principles of Temporary Traffic Management (TTM) and Site Practice
- Maintaining a closure

FULL AWARD ASSESSMENT

End of course multiple choice test.

Registered Moving Works (MWO)

T1 (M1): 1/2 Day Training (including assessment)

INTRODUCTION

This ½ day module is designed for operatives involved in mobile and short duration minor works on rural and urban roads.

WHO SHOULD ATTEND

This course is suitable for all persons carrying out the following types of work: pot hole repair, leak detection, fault finding, tree cutting or felling, installation of traffic loops, coring, grass cutting, hedge cutting, weed spraying, road sweeping/cleaning, street lighting maintenance, pole testing, road markings, compliance testing, jetting of sewers, and jet or velocity patching, gulley emptying, litter picking.

This is not an exhaustive list.

PRE-REQUISITES

If they do not already hold a current 12A/B/C card, learners must successfully complete the TTMBC course prior to attending M1.

AIN

To provide the necessary technical knowledge and skills in order for learners to be able to implement the correct traffic management requirements to undertake moving and short duration minor works.

OBJECTIVES

On completion of this course learners will have covered:

- Sector schemes
- Health and safety requirements
- Risk assessments and method statements
- Relevant codes of practice and other associated documentation when involved in traffic management
- Identification of the equipment required in temporary traffic management
- The requirements for mobile works and short duration minor works
- ▶ The requirements of non-motorised road users

COURSE CONTENT

- Quality assurance
- Sector schemes
- Health & safety at work
- Risk assessments/method statements
- Health & Safety Executive
- Industry guidance documents
- Highway terminology
- Types of work
- Equipment & vehicles
- Traffic lane widths
- Moving and minor works
- End of course test

FULL AWARD ASSESSMENT

Learners will obtain Moving Works Operative status (Award M1) by successfully passing the end of course multiple-choice question paper which carries a 75% pass mark.



Static Works on Single Carriageways

T1 (M1) + T2 (M2) : 1 Day Training + centre based and on-site Assessments

INTRODUCTION

This 1 day course consists of two ½ day sessions. The first ½ day module is designed for operatives involved in mobile and short duration minor works on rural and urban roads. The second ½ day module covers give and take, and priority signs (passive traffic control), and stop and go, and 2-way portable traffic signals (positive traffic control).

WHO SHOULD ATTEND

This course is suitable for all persons required to carry out the above works and become a Registered Traffic Management Operative (RTMO) as described in the sector schemes document 12D.

PRE-REQUISITES

Learners must successfully complete the M1 assessment prior to commencing T2 training or M2 assessment.

AIM

To provide the necessary technical knowledge and skills in order for learners to be able to implement the correct traffic management requirements to undertake Static Works on Single Carriageways including all forms of Traffic Control (except multi-phase traffic signals).

OBJECTIVES

On completion of this course learners will have covered:

- Sector schemes
- Health and safety requirements
- Risk assessments and method statements
- The relevant codes of practice and other associated documentation when involved in traffic management
- Identification of the equipment required in temporary traffic management
- The different methods of traffic control
- ▶ The requirements of non-motorised road users

COURSE CONTENT

- Quality assurance
- Sector schemes
- Health & safety at work
- ▶ Risk assessments/method statements
- Health & Safety Executive
- Industry guidance documents
- ▶ Highway terminology
- Types of work
- Equipment & vehicles
- Traffic lane widths
- Moving and minor works
- End of course test

FULL AWARD ASSESSMENT

Following completion of the 12D T1+T2 training course learners will obtain full operative status (Award M1+M2) by completing a set of on and off site assessments. The assessments must be completed within a two year period starting from the date of passing the training.

To fully complete the award each candidate is required to successfully complete:

- ▶ 1x in-centre simulated assessment
- 2x on-site live conditions assessments*

*Subject to all criteria being satisfactorily met

Static Works on Dual Carriageways

T3 (M3): ½ Day Training + on-site Assessments

INTRODUCTION

This ½ day course covers lane closures on dual carriageways restricted to 40mph or less using static traffic management.

WHO SHOULD ATTEND

This course is intended for Registered Traffic Management Operatives (RTMO) who are required to carry out the above works.

PRE-REOUISITES

Learners must have successfully completed the TTMBC, T1, and T2 training courses before attending the T3 training. Before undertaking the M3 assessments learners must have successfully completed the M1 and M2 assessments.

AIM

To provide learners with the necessary underpinning technical knowledge and skill to install, maintain, alter and dismantle temporary traffic management systems on dual carriageway roads restricted to 40mph or less.

OBJECTIVES

On completion of this course learners will be:

- Aware of sector schemes
- Aware of health and safety work
- Aware of risk assessments and method statements
- Aware of the relevant codes of practice and other associated documentation when involved in traffic management
- Able to identify the equipment required in temporary traffic management
- Able to understand the requirements for working on dual carriageways restricted to 40mph or less

COURSE CONTENT

- Quality assurance
- Sector schemes
- Health & safety at work
- Risk assessments/method statements
- ▶ Health & Safety Executive
- Industry guidance documents
- ▶ Chapter 8 of the Traffic Signs Manual
- Types of work
- Safety zones
- Equipment and vehicles
- Basic layouts
- Setting out traffic management
- Arrival on site
- Advance signs
- Taper installation
- Entering closures
- Maintaining closures
- Removal of closuresSafe taper positions
- Group layouts and desktop models
- ▶ End of course test

FULL AWARD ASSESSMENT

Learners will obtain full operative status (Award M3) by completing at least three site-based assessments. The assessments must be completed within a two year period starting from the date of passing the training.

To fully complete the award each candidate is required to successfully complete:

→ 3x on-site live assessments*

*Subject to all criteria being satisfactorily met.

Convoy Working

T4 (M4): ½ Day Training + on-site Assessments

INTRODUCTION

This $\frac{1}{2}$ day course covers the requirements for convoy working on rural and urban roads.

WHO SHOULD ATTEND

Those required to become a registered traffic management convoy working operative.

PRE-REQUISITES

Learners must have successfully completed the TTMBC, T1, and T2 training courses before attending the T4 training. Before undertaking the M4 assessments learners must have successfully completed the M1 and M2 assessments.

AIM

To provide learners with the necessary underpinning technical knowledge and skill to convoy work on all urban and rural roads, and dual carriageway roads restricted to 40mph or less.

OBJECTIVES

On completion of this course learners will:

- Be aware of sector schemes
- Be aware of health and safety work
- Be aware of risk assessments and method statements
- Be aware of the relevant codes of practice and other associated documentation when involved in traffic management
- Identify the equipment required in temporary traffic management
- Understand the requirements for convoy working
- Understand how convoy systems operate

COURSE CONTENT

- Quality assurance
- Sector schemes
- Health & safety at work
- Risk assessments/method statements
- Health & Safety Executive
- Industry guidance documents
- Safety zones
- Convoy vehicles and equipment
- Single carriageway convoy systems single vehicle
- Single carriageway convoy systems three vehicles
- Dual carriageway convoy systems multiple vehicles
- ▶ End of course test

FULL AWARD ASSESSMENT

Learners will obtain full operative status (Award M4) by completing one site-based assessment. The assessment must be completed within a two year period starting from the date of passing the training.

To fully complete the award each candidate is required to successfully complete:

1x on-site live assessment*

*Subject to all criteria being satisfactorily met

Multi-phase Traffic Signals

T5 (M5): ½ Day Training + on-site Assessments

INTRODUCTION

This ½ day course covers the requirements for installation, maintenance and removal of multi-phase traffic signals.

WHO SHOULD ATTEND

Registered Traffic Management Operatives (RTMO) needing to be qualified for the use of multi-phase traffic signals.

PRE-REOUISITES

Learners must have successfully completed the TTMBC, T1, and T2 training courses before attending the T5 training. Before undertaking the M5 assessments learners must have successfully completed the M1 and M2 assessments.

AIM

To provide learners with the necessary underpinning technical knowledge and skill to install, operate, maintain and dismantle multi-phase traffic signals.

OBJECTIVES

On completion of this course learners will:

- Be aware of sector schemes
- Be aware of health and safety work
- Be aware of risk assessments and method statements
- Be aware of the relevant codes of practice and other associated documentation when involved in traffic management
- Identify the equipment required in temporary traffic management
- Understand the requirements for multi-phase traffic signals
- Understand how to operate multi-phase traffic signals

COURSE CONTENT

- Quality assurance
- Sector schemes
- Health & safety at work
- Risk assessments/method statements
- Health & Safety Executive
- ▶ Multi-phase systems
- Preparations
- Planning
- Installation and commissioning of the system
- Timings
- Site maintenance
- De-installation
- End of course test

FULL AWARD ASSESSMENT

Learners will obtain full operative status (Award M5) by completing one site-based assessment. The assessment must be completed within a two year period starting from the date of passing the training.

To fully complete the award each candidate is required to successfully complete:

½ day centre based assessment and 1 day on-site live assessment*

*Subject to all criteria being satisfactorily met.



Registered Lead Traffic Management Operative

T6 (M6): 2 Days Training (including assessments)

INTRODUCTION

This 2 day course covers the requirements for a learner to become a Registered Lead Traffic Management Operative (RLTMO).

WHO SHOULD ATTEND

Registered Traffic Management Operatives (RTMO) needing to supervise traffic management.

PRE-REOUISITES

Learners must have successfully completed all M2 assessments as a minimum. N.B. those who are required to act as RLTMO for low speed dual carriageways, convoy working, or multiphase signals, must also have achieved M3/M4/M5 as appropriate.

AIM

To provide learners with the necessary underpinning technical knowledge and skill to supervise a gang or gangs who will be undertaking the installation, maintenance, and removal of temporary traffic management.

OBJECTIVES

On completion of this course learners will:

- Understand the aims & principles of the National Highway Sector Schemes
- Have an awareness of traffic management health & safety issues
- Appreciate the different sources of information regarding traffic management and in particular understand the key issues and differences between Chapter 8 and the Code of Practice (Red Book)
- Understand the risk assessment process and how to apply it to traffic management
- Have an understanding of the role of the RLTMO and have demonstrated the ability to assess the suitability of equipment, to monitor changing conditions on site, and recommend appropriate remedial action as necessary
- Be able to ascertain when management intervention is required

COURSE CONTENT Day 1

- Chapter 8 & Safety at Streetworks & Roadworks
- Revision of low speed dual carriageways, convoy working and multiphase signals
- Risk assessments & method statements
- ▶ Traffic Management basic principles
- Signing, lighting and guarding details
- ▶ Site maintenance and legal issues
- How to deal with conflicts between permanent and temporary signs and roadmarkings
- Action to deal with poor visibility & speeding traffic
- Footways, pedestrians, excavations and guarding details
- Moving and short duration minor works
- Pedestrian and cycle crossings and cycle tracks
- Works at junctions and roundabouts
- Road closures

Day 2

- Identifying traffic control needs
- Portable signals
- Stop & go
- Speed control and speed limits
- Unusual situations and techniques tramways, railway level crossings, transition sections, escort vehicles
- Vehicle issues

FULL AWARD ASSESSMENT

Learners will obtain Registered Lead Traffic Management Operative status (Award M6) by completing two end of course classroom based assessments.

To fully complete the award each candidate is required to successfully complete:

2x classroom based tests

Managers & Client Officers

T7 (M7): 2 Days Training (including assessments)

INTRODUCTION

This 2 day course is for all levels of management, client officers, technicians and any one not actually installing Temporary Traffic Management (TTM), but requiring knowledge of basic practice and design procedures for TTM on urban and rural roads.

WHO SHOULD ATTEND

From the 1st April 2013 M7 is a mandatory requirement for technical officers and the organization's TTM manager. It is also strongly recommended for all other managers/supervisors with TTM responsibilities.

PRE-REQUISITES

There are no pre-requisites for this course.

AIM

To provide learners with the necessary underpinning technical knowledge of temporary traffic management and the design procedures used by Highway Authorities, or contractors, or other organisations who require a knowledge of current basic practice.

OBJECTIVES

On completion of this course learners should:

- Have a working knowledge
 of National Highway Sector Schemes
- Have an awareness of traffic management health & safety issues
- Be able to interpret the requirements of 'The Safety at Street Works and Road Works, A Code of Practice (The Red Book)' and obtain further guidance from 'The Traffic Signs Manual, Chapter 8'
- Be able to consider all options available to determine the level and extent of the Temporary Traffic Management (TTM) required
- Be able to demonstrate knowledge of the site risk assessment process

- Have the ability to assess and determine the temporary traffic layout required for a given work location, activity or operation
- Be able to understand the standard of equipment that is acceptable to use
- Realise the implications of changing conditions on site
- Have the confidence to liaise with site staff for appropriate remedial actions
- Have the ability to confirm suitability of TTM plans prior to work starting on site

COURSE CONTENT

- Operative and scheme requirements
- ▶ Reference documentation and definitions
- Categories of road network and operations
- Principle responsibilities
- Quick guide on highway legislation, affecting Temporary Traffic Management operations
- Carry out on-site assessments
- Equipment, uses and requirement for use
- Site requirements, limitations and actions
- Site works and monitoring
- Site and activity specific requirements
- Set scenarios of temporary traffic management requirements

FULL AWARD ASSESSMENT

Learners will obtain full M7 certification (Award M7) by completing an end of course classroom based assessment.

To fully complete the award each candidate is required to successfully complete:

▶ 1x classroom based test

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Traffic Management for Community Events

TMCE: 1 Day Training

INTRODUCTION

The police will no longer take responsibility for traffic management at pre-planned events unless they are of national significance or are a potential risk to public safety. This training course has been developed to provide event organisers with the knowledge required to create a Traffic Management Plan and an understanding of issues affecting traffic, pedestrian and event staff safety.

WHO SHOULD ATTEND

This course is intended for event organisers or individuals that have responsibility for Traffic Management of organised events working in conjunction with local Highway Authority, the Police and other authorities and persons as appropriate. The course would also benefit Highway Authority staff involved in the organisation or approval of community events. This course is intended for Event Stewards, whose duties may include: guiding vehicles, maintaining emergency routes, erecting signs and notices, dealing with pedestrian control, etc. The course is not intended for Traffic Marshalls who are appointed by and accredited by the Police to deal with more complex traffic management issues at major events.

PRE-REQUISITES

There are no pre-requisites for this course.

AIM

To provide delegates with the necessary knowledge and skills to plan and carry out temporary traffic management on community events.

OBJECTIVES

On completion of this course learners will be:

- Aware of current legislation and its requirements
- Understand the application process and costs involved
- ▶ Able to devise a Traffic Management Plan

- Able to identify typical hazards and approriate control measures related to the activity
- Have an understanding of basic traffic management requirements affecting highway users and event staff
- Demostrate by examination sufficient knowledge to be accredited as a steward for this activity

COURSE CONTENT

- Introduction and Objectives
- Introductions and Documentation
- Legislation
- Application & Costing
- ▶ Traffic Management Plan
- Risk Assessment
- ► Assessment 1 traffic management plan
- Traffic Management requirements
- Assessment 2 writing a risk assessment
- ➤ This is a classroom based course with a test under exam conditions. The pass rate for the test is 70%.

FULL AWARD ASSESSMENT

Learners will obtain a skills identity card and certificate of training which is valid for 5 years from the date of completion.

Traffic Management for Verge Works and similar activities

TMVW: ½ Day Training

INTRODUCTION

This half day course has been designed for those operatives working on verges/pavement areas adjacent to rural and urban roads.

WHO SHOULD ATTEND

This course is suitable for all persons carrying out the following types of work: Grass cutting, beds and borders, shrub bed maintenance, hedge cutting, weed spraying, tree cutting or felling, wood chipping, litter picking.

This is not an exhaustive list.

AIM

To provide the necessary technical knowledge and skills in order for delegates to be able to work safely on verges near rural and urban roads.

OBJECTIVES

On completion of this course learners will:

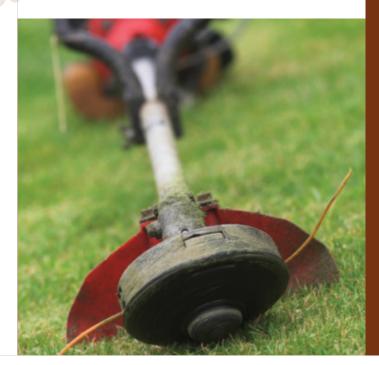
- Be aware of their own and their employer's legal responsibilities concerning work on the Public Highway and Health and Safety legislation
- Understand the hazards associated with working on or near the public highway and be aware of appropriate risk reduction and control techniques that can be used
- Understand Environmental hazards associated with verge maintenance
- Use the Code of Practice to obtain information relevant to Traffic Management layouts
- Understand the correct procedures to be adopted when setting up and dismantling traffic management

COURSE CONTENT

- Introduction
- ▶ Legislation relevant to Highway Works
- Health Safety Legislation
- Personal and Public Protection
- Safety at Streetworks and Roadworks (A Code Of Practice)
- ▶ Conspicuousness of Works Vehicles
- ▶ Footway Works/Obstructions
- Safety Clearances (Zones)
- Practical Exercises (on site risk assessment)
- Application/Meaning of Signs
- Single Vehicle Works
- Works on Minor Roads
- Mobile Operations
- Dual Carriageway Works
- Basic Signing Layouts
- Practical Exercises
- Paper based scenario for signage requirements

CERTIFICATION

On completion of the course, delegates will receive a Skills Training Centre Ltd certificate of training attendence.



CERTIFICATION

All NHSS 12 skills will now be consolidated on to the single, ONE Smartcard. The single card approach to skills registration is now recognised as 'best practice' across several industries.

As skills are added, learners can now check them by scanning their card using the GOSMART app or OMNI Key card scanner. Details of how to scan the card are featured on the reverse of the ONE Smartcard.

The NHSS 12 ONE Smartcard has a standalone expiry date of 10 years which is separate to the expiry of any category that is on the card.

RE-OUALIFICATION

Sector Scheme 12D Qualifications are valid for 5 years. From 6 months prior to the date of expiry and up to 6 months after the date of expiry, qualifications can be renewed by attending the standard training (T1 – T7) sessions again. Once learners are more than 6 months past the expiry date, the only way to re-qualify is to retake in full, the Training and Assessment programme for each qualification required. Once the card has expired, learners are no longer deemed competent and their status reverts to "trainee". This means that the appropriate gang ratios must be adhered to accordingly.

HOW TO BOOK

If you would like to discuss your organisation's Sector Scheme 12D training and assessment requirements, please call or email us to make an enquiry.

We will be happy to explain the requirements of the qualification and assist you in putting together a programme that is relevant to your staff and the types of work that they undertake.

If you already know which course(s) you require, you can book places on our scheduled courses by visiting our website www.skillstrainingcentre.co.uk and booking online.

In-house courses can be provided anywhere in the UK.





