



Part of the  
**Enginuity** Group

# Qualification Specification

## **EAL Level 3 Award in DC Electrical Installations within the Telecommunications Industry**

**Qualification code: 603/7601/6**

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## 1.0 About EAL

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For over fifty years, EAL has been the specialist awarding organisation for engineering, manufacturing, building services and related sectors. Developed to the highest technical standards, our qualifications reflect ever changing industry and regulatory needs. We support the providers of our qualifications with an unparalleled level of service to ensure that learners are well prepared to take the next step in their journeys, whether study, an apprenticeship or work.

Through industry partnerships with EAL centres and training providers, decades of experience supporting our core sectors, and our role as part of the Enginuity Group, we have built unrivalled knowledge and understanding of employer skills needs. As a result, EAL's skills solutions, including apprenticeship End-Point Assessment, External Quality Assurance and qualifications are respected and chosen by employers to deliver real lifelong career benefits for all our learners. That is why in the last ten years, 1.2 million people across the UK have taken EAL qualifications.

### 1.1 Equal opportunities and diversity

EAL expects its centers to enable learners to have equal access to training and assessment for qualifications in line with equalities legislation. Further details can be in the EAL Equal Opportunities and Diversity Policy: <http://www.eal.org.uk/centre-support/centre-support/policies-and-important-documents>

Note: Where learners taking the qualification in a region where legislation, organisations, regulations detailed does not apply, relevant legislation should be substituted. For example: The Health and Safety at Work etc. Act 1974 shall be substituted in Northern Ireland by The Health and Safety at Work (Northern Ireland) Order 1978.

### 1.2 Customer experience and feedback

Customer service is a fundamental part of EAL's commitment to you. EAL aims to ensure that all customers receive a high-quality efficient service. We are always interested in feedback and if you have any comments or feedback on our qualifications, products or services, please contact the Customer Experience team:

EAL Customer Experience:

Tel: +44 (0)1923 652 400

Email: [customer.experience@eal.org.uk](mailto:customer.experience@eal.org.uk)

## 2.0 Introduction to the qualification

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### What is the purpose of this qualification?

The qualification has been designed to support the relevant engineers within the telecommunications industry to ensure operatives are provided with the relevant knowledge and practical skills to operate safely and consistently to required industry standards on DC Powered telecoms equipment and be compliant with UK Health and Safety Legislation.

### Who is this qualification for?

This qualification is aimed at field engineers and technicians who are responsible for the installation, inspection and maintenance of DC powered telecoms equipment.

Centres are advised to consider, during induction, delivery and assessment of the qualification, what support, guidance and opportunities the learner will need to enable them to meet the requirements of the qualification.

### What does this qualification cover?

This qualification consists of eleven units that will develop the knowledge and skills the learner requires to progress in telecoms engineering for inspection, testing and maintenance of DC powered telecoms systems.

The learner must undertake all of the mandated units and assessments to achieve final certification of the completion of the course.

As part of the learning outcomes, learners will also cover topics relevant to DC powered telecoms, health and safety and planning. Undertaking theory and practical based tasks that are relevant to the DC powered telecoms engineering environments and industries.

This qualification is graded Pass or Refer only. This qualification has a minimum of 54 Guided Learning Hours (GLH). It has a Total Qualification Time (TQT) of 81 hours (the notional time required by the learner to complete the qualification).

### 2.1 Accreditation and industry support for this qualification

This qualification is:

- Regulated at Level three
- Supported by the Telecommunications Industry for DC powered telecoms Systems

### 2.2 Achievement of qualification

The qualification is awarded when **ALL** the units for the qualification have been achieved. The centre will then be able to apply for the learner's certificate. The learner will also receive a certificate of unit credit.

### 2.3 Qualification support materials

The following support materials are available for this qualification:

- Delivery Packs
- Learner Packs

## 3.0 Centre and qualification approval

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Centres wishing to deliver the EAL Level 3 Award in DC Electrical Installations within the Telecommunications Industry will need to comply with this manual and EAL's centre recognition criteria. Centres must also put in place the appropriate physical and human resources and administration systems to effectively run the qualification.

### **For existing EAL centres to put the qualification on your centre remit:**

To add the EAL Level 3 Award in DC Electrical Installations within the Telecommunications Industry qualification to your centre qualification remit, create and complete a qualification approval application form in Smarter Touch and submit to EAL.

### **For non EAL centres to gain centre approval to run the qualification:**

Please contact the EAL Customer Experience Team who will be delighted to hear from you:

EAL Customer Experience:

Tel: +44 (0)1923 652 400

Email: [customer.experience@eal.org.uk](mailto:customer.experience@eal.org.uk)

## 4.0 Qualification specific information

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### Rule of combination (qualification structure)

#### EAL Level 3 Award in Qualification Award in DC Electrical Installations within the Telecommunicatio Industry

This qualification will be obtained by the Learner once they have successfully completed **ALL** the **mandatory units**. This qualification has a minimum of 54 Guided Learning Hours (GLH) and a Total Qualification Time (TQT) of 81.

#### Mandatory Units:

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EAL code	Unit title	Level	GLH	Ofqual code
DCPST3-001	Health and Safety Legislation and Standards for DC Electrical Installations in Telecoms	3	4	A/618/7560
DCPST3-002	Electrical Principles and Practices	3	8	F/618/7561
DCPST3-003	Hazards associated with Electricity in Electrical Installations in Telecoms	3	4	J/618/7562
DCPST3-004	Principles of BS7671 relevant to DC Power Systems in Telecoms	3	2	L/618/7563
DCPST3-005	Telecoms DC Power Systems	3	4	R/618/7564
DCPST3-006	Understand the Principles of Telecoms Batteries	3	4	Y/618/7565
DCPST3-007	Understand Safe Power Distribution and Protection for Telecoms Power Systems	3	4	D/618/7566
DCPST3-008	Principles of Earthing and Bonding for Electrical Systems used within Telecoms Power Systems	3	4	H/618/7567
DCPST3-009	Principles of Lightning Protection Systems in Telecoms	3	4	K/618/7568
DCPST3-010	Cabling and Terminations for Telecoms Power Systems	3	8	M/618/7569
DCPST3-011	Inspection and Testing of DC Telecoms Power Circuits	3	8	H/618/7570

## 5.0 Profiles and requirements

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The staff involved in the delivery of these qualifications at the Centre must meet **ALL** of the requirements in this section.

### 5.1 Learners

Centres are required to appoint a suitable member of staff who can take responsibility for registering learners onto the qualification, submitting entries for externally set assessments to EAL, and taking receipt of external assessment procedures. They may also be responsible for applying to EAL for learner certificates. The role may be undertaken by the same person who undertakes quality assurance (see Section 5.4).

### 5.2 Teaching staff

**Teaching staff must have knowledge and understanding of:**

- The occupations covered by this qualification
- The qualification structure and content
- The learning outcomes and assessment criteria they are delivering.

**Teaching staff will also:**

- Have a minimum of 2 years' experience in teaching/training.
- or
- Be working towards an appropriate teaching/training qualification.
- or
- Hold an appropriate teaching/training qualification (e.g. Cert Ed or Learning and Development trainer units).

### 5.3 Assessors

The Centre must provide EAL with the names of any teachers, trainers or other individuals who will undertake internal assessment (referred to as assessors), so that these can be approved prior to them carrying out an assessment role.

**Assessors must have:**

- A minimum of 2 years occupational experience within the area they are assessing
- Knowledge and understanding of the assessment criteria they are assessing
- Knowledge and understanding of the qualification structure, content and assessment components
- Understand the assessment process.

**Assessors will also:**

- Have a minimum of 2 years' experience in assessment of knowledge-based qualifications
- or
- Be working towards an appropriate assessment qualification, such as the 'Level 3 Award in Assessing Vocationally Related Achievement'.  
(Note: 'Candidate assessors' who are working towards their assessor qualifications must be countersigned by a qualified assessor. Candidate assessors must have a clear action plan for achieving the Assessor qualification(s). Assessor approval will be withdrawn if the relevant qualification has not been attained within 18 months.)
- or
- Hold an appropriate assessment qualification (as above).

Assessors that hold either 'D' or 'A' units must also have evidence of Continuing Professional Development (CPD) to demonstrate compliance with the current assessor standards.

There will be instances where the teaching staff will also take on the role of the internal assessors. In such cases, the member of staff must be able to demonstrate that they satisfy the requirements of both teaching staff and assessor criteria as listed above.

#### **Assessor continuing professional development**

The occupational competence of assessors must be updated on a regular basis and be periodically confirmed via continuing professional development (CPD) via the Assessment Centre. Evidence of CPD will be sought by the External Quality Assurer for all approved Assessors at the Centre.

It is the responsibility of each assessor to identify and make use of opportunities for CPD, such as industry conferences, access to trade journals, and Professional Body/Trade Association events, at least on an annual basis to enhance and upgrade their professional development and technical knowledge. It is imperative that records are kept of all such CPD opportunities/occasions and that they provide evidence of cascading such technical knowledge and industry intelligence to all relevant colleagues.

## 5.4 Quality assurance staff

This relates to staff undertaking internal quality assurance of assessment. The Centre MUST provide EAL with the names of any teachers, trainers or other individuals who will undertake internal quality assurance, so that these can be approved prior to them carrying out this role.

The main focus of internal quality assurance for this qualification is:

- The quality assurance of assessment procedures, including standardisation of assessment practice across different assessors within the Centre
- Internal standardisation of marking and moderation of learner marks awarded for the final synoptic
- assessment.

### Internal quality assurance staff must:

- Be familiar with the occupation(s) covered by this qualification
- Have knowledge and understanding of the qualification structure and content
- Understand the assessment process and the role of quality assurance.

### Internal quality assurance staff must also:

- Have experience in quality management/internal quality assurance
- or
- Hold an appropriate qualification, such as the 'Level 4 Award in the Internal Quality Assurance of Assessment Processes and Practice, or the 'Level 4 Certificate in Leading the Internal Quality Assurance of Assessment Processes and Practice'.

It is a recommendation that quality assurance staff have access to relevant 'occupational expertise', which will enable them to conduct their quality assurance role appropriately.

### Continuing professional development of internal quality assurance staff

The occupational experience of quality assurance staff must be updated on a regular basis and be periodically confirmed via continuing professional development (CPD) via the Assessment Centre. This will be quality assured by EAL.

It is the responsibility of each internal quality assurance staff member to identify and make use of opportunities for CPD, such as industry conferences, access to trade journals, and SSC and Professional Body/Trade Association events, at least on an annual basis to enhance and upgrade their professional development and technical knowledge. It is imperative that records are kept of all such CPD opportunities/occasions and that they provide evidence of cascading such technical knowledge and industry intelligence to all relevant colleagues.

## 5.5 Learners with particular requirements

### Entry requirements

Centres should ensure that the learners have the potential to achieve these qualifications. Learners must have the minimum levels of literacy and numeracy to complete the learning outcomes and the external assessment

Centres should make learners with particular requirements aware of the content of the qualification and they should be given every opportunity to successfully complete the qualification. EAL will consider any reasonable suggestions for, and from, those with disabilities that would help them to achieve the learning outcomes without compromising the standards required.

## 5.6 Age restrictions

Learners must be at least 16 years old.



## 6.0 Assessment

The qualification is assessed by a Centre marked written controlled paper, and a practical assessment consisting of the DC electrical installations in telecoms.

### Key points:

- The qualification assessments (and the qualification) are graded pass or fail only
- The learner must pass **ALL** assessments to achieve the qualification
- The pass mark for the written controlled knowledge paper is 80%
- Practical assessment has a pass or fail mark (critical points must be achieved)
- There are two written and interactive controlled papers (A & B) to diversify for the learners requirements
- The knowledge assessment answers have been provided in the Knowledge Assessment Specification
- The practical task has been provided in Practical Assessment Specification manual

The following table indicates the assessment components that are included in the qualification and for each component:

- Who is responsible for setting and marking the component?
- How the component is quality assured.

Assessment component	Set by:	Marked by:	Method of quality assurance	
			Internal	External
Centre marked practical/theory assessments <sup>1</sup>	Centre	Centre	On-going standardisation within the Centre	Verification and continuous monitoring via EQA visits

### Centre Marked Assessment

This includes practical and theory assessments. These assessments are set by EAL and marked by members of the delivery team at the Centre. All assessment decisions are then subject to internal standardisation and external quality assurance.

Centre marked assessments are accompanied by marking criteria and other materials to ensure that the markers are consistent in their approach to assessment across learners.

Centres are responsible for ensuring that Centre marked assessments are suitably controlled to ensure that assessment decisions are valid and reliable, and that work submitted for assessment by learners is prepared and produced by them independently, without assistance from others, and free of plagiarism.

Centres should maintain an assessment and feedback record for each learner, which details the evidence evaluated and the feedback given to the learner. These records must be available to the External Quality Assurer. Further guidance on assessment is provided within each unit Delivery Pack.

Where the assessment takes the form of written question papers, these should be treated as controlled assessments therefore centres must impose the necessary restrictions on the learner.

### Re-taking centre marked assessments

Learners who fail to achieve a pass in the internally marked controlled assessments will be permitted to re-take after feedback and appropriate tuition has taken place.

These should be treated as controlled assessments therefore imposing the necessary restrictions on the learner as necessary. Guidance sheets have also been created for the learners, to ensure they are aware how to complete the multiple choice and short answer questions papers.

All learning outcomes of the qualification must be assessed. In order to help meet this requirement it is advised that learners should produce a logbook/portfolio where they can file and make reference to evidence that shows their achievements against the learning outcomes. Centres should also maintain an assessment and feedback record for each learner, which details the evidence evaluated against the

learning outcome and the feedback given to the learner. These records must be available to the External Quality Assurer.

Further guidance on assessment is provided within each unit Assessment Pack.

Learners who fail to achieve a pass in the internally marked controlled assessment/s will be permitted **ONE** re-take opportunity, after feedback and appropriate tuition has taken place.

## 6.1 Standardisation of internal assessments

Members of the internal quality assurance team at the Centre have an important role to play in ensuring that internal assessment is standardised. In particular, they should work with tutors/assessors to ensure that the correct procedures are being followed at all times, and to ensure that assessment decisions taken by different assessors are consistent, fair and reliable.

Key activities will include:

- Meeting with tutors/assessors (individually and collectively) throughout the course to discuss quality assurance and standardisation issues and provide support and guidance where needed.
- Observing tutors/assessors and giving them feedback to help improve their assessment technique.
- Sampling learner evidence across different learner cohorts to ensure that appropriate standards have been met.
- Arranging cross-marking of learner work to compare results and agree benchmarks.

**Specification for the centre marked controlled written knowledge papers A and B for units DCPST3-001 to DCPST3-009 information can be found in the Knowledge Assessment Specification DCPST3-KAS document.**

Key aspects:

- Number of questions: 50
- Time allowed: 1 Hour 40 mins
- Permitted materials: calculator, paper, pens, pencil or IT equipment (interactive assessment devices)
- Open book (The centre is responsible for providing relevant course notes that may be referred to during the written knowledge paper)
- Pass mark: 80%
- 100 total marks from outcomes 1-9

**Note that available controlled written papers can be rotated between cohorts and must be used for retakes where applicable.**

**Specification for the centre marked practical assessment for units DCPST3-006, DCPST3-010 & DCPST3-011 information can be found in Practical Assessment Specification DCPST3-PAS document.**

Key aspects:

- This assessment can be stopped at any point by the assessor if they regard practices as unsafe
- The assessment checklist has 5 areas of critical marking criteria which the learner must Pass
- The Assessment is Pass/refer only
- The learner must complete the Practical Assessment Report
- Total of 38 areas of marking criteria

## 7.0 External quality control of assessment

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There are two major activities in which EAL interacts with the Centre in relation to the External Quality Control of Assessment for this qualification and these are:

- **Recognition:** When a Centre decides to offer the qualification, the EAL External Quality Assurer (EQA) ensures that the Centre is suitably equipped and prepared for delivery and assessment.
- **Engagement:** Throughout the ongoing delivery of the qualification EAL, through EQA monitoring and other mechanisms will review the quality and consistency of assessment and internal quality assurance and will recommend actions to address issues of concern.

### Recognition

In granting approval, EAL, normally through its EQA's, will ensure that the prospective Centre:

- Meets any procedural requirements specified by EAL.
- Has sufficient and appropriate physical and staff resources.
- Meets relevant health and safety and/or equality and access requirements.
- Has a robust plan for the delivery, assessment and QA for the qualifications (including, where appropriate, scope for involving employers).

EAL may decide to visit the Centre to view the evidence provided.

### Engagement

EAL, through EQA Engagement and other mechanisms will ensure that:

- A strategy is developed and deployed for the on-going monitoring of the centre – this will be based on an active risk assessment of the Centre, and will include details of the learner, assessor and internal quality assurer's sampling strategy and the rationale behind this.
- The Centre's internal quality assurance processes are effective in learner assessment.
- Outcomes of internal assessment are verified, through sampling, to ensure standards are being maintained.
- Sanctions are applied to a Centre where necessary and that corrective actions are taken by the Centre and monitored by the EQA.
- Reviews of EAL's external auditing arrangements are undertaken.

## 8.0 Marking and grading

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The grading for this qualification is either Pass or Refer

Learners must achieve a Pass in **ALL** components for the qualification to be awarded.

If learners are unsuccessful in one or more of the assessment components, then the overall result for the qualification will be Refer and a certificate will not be awarded.

If a learner is referred the learner must be given feedback to enable the learner to understand those areas of skill, knowledge or understanding which need further training.

Assessment information is given in the delivery pack

## Appendix 1: Learner registration and certification

Learners must be registered on the qualification using a specific qualification code.

Using this code will ensure the learner receives the correct materials.

The registration code for this qualification is:

Qualification title	Code
EAL Level 3 Award in DC Electrical Installations within the Telecommunications Industry	603/7601/6

## **Appendix 2: Unit Overview**

Level 3

**Unit Title:**

**Health and Safety Legislation and Standards for DC Electrical Installations in Telecoms**

Unit Code: DCPST3-001

**Overview**

This unit aims to provide the learner's with the essential knowledge and understanding of their responsibilities to work safely on telecoms power systems in compliance with relevant health and safety legislation and associated codes.

The unit covers the following learning outcome:

1. Understand the Health and Safety Legislation relevant to working with Electricity

At the end of the unit learners will gain the relevant knowledge and understanding of the Health and Safety legislation and Standards which will enable them to carry out their job role safely and in accordance with the requirements for DC Power Systems Electrical Installations for the Telecommunication industry.

Level 3

**Unit Title:**

**Electrical Principles and Practices**

Unit Code: DCPST3-002

## **Overview**

This unit aims to provide the learner's with the essential knowledge, understanding and skills of the basic principles of electricity and how to measure voltage, current and resistance using the appropriate instruments.

The unit covers the following learning outcomes:

1. Understand the fundamental principles of electricity and the tools required to measure voltages, current and resistance

At the end of the unit learners will gain the relevant knowledge and understanding that will enable them to understand the fundamental requirements of electricity and the tools used to measure volts, amps and ohms which will enable them to carry out their job role safely and in accordance with the requirements for DC Power Systems Electrical Installations for the Telecommunication industry.



Level 3

**Unit Title:**

**Hazards associated with Electricity in Electrical Installations in Telecoms**

Unit Code: DCPST3-003

**Overview**

This unit aims to provide the learner's with the knowledge and understanding of the hazards and risks associated with working with electricity.

The unit covers the following learning outcomes:

1. Understand the hazards associated with electricity for electrical installations in telecoms

At the end of the unit learners will gain the relevant knowledge and understanding of the hazards and risks associated with electricity which will enable them to carry out their job role safely and competently in accordance with the requirements for DC Power Systems Electrical Installations for the Telecommunication industry.

Level 3

**Unit Title:**

**Principles of BS7671 relevant to DC Power Systems in Telecoms**

Unit Code: DCPST3-004

**Overview**

This unit aims to provide the learner's with the knowledge and understanding of the basic principles and relevance of BS7671 in relation to DC power systems in telecoms.

The unit covers the following learning outcomes:

1. Understand the principles and relevance of BS7671

At the end of the unit learners will gain the relevant knowledge and understanding of the relevance of BS7671 standard which will enable them to carry out their job role safely and in accordance with the requirements for DC Power Systems Electrical Installations for the Telecommunication industry.

Level 3

**Unit Title:**

**Telecoms DC Power Systems**

Unit Code: DCPST3-005

## **Overview**

This unit aims to provide the learner's with the knowledge and understanding of the features and the purpose of telecoms DC power systems.

The unit covers the following learning outcomes:

1. Understand the features and design of a telecoms DC power systems

At the end of the unit learners will gain the relevant knowledge and understanding of the features and the purpose of telecoms DC power Systems which will enable them to carry out their job role safely and in accordance with the requirements for DC Power Systems Electrical Installations for the Telecommunication industry.

Level 3

**Unit Title:**

## **Understand the Principles of Telecoms Batteries**

Unit Code: DCPST3-006

### **Overview**

This unit aims to provide the learner's with the knowledge, understanding and skills of the features and purpose of batteries used in telecoms power systems.

The unit covers the following learning outcomes:

1. Understand battery technologies and how to maintain batteries safely
2. Be able to demonstrate safe battery testing, maintenance and handling activities

At the end of the unit learners will gain the relevant knowledge, understanding and skills for the operation, maintenance and safe handling of telecoms batteries which will enable them to carry out their job role safely and in accordance with the requirements for DC Power Systems Electrical Installations for the Telecommunication industry.

Level 3

**Unit Title:**

## **Understand Safe Power Distribution and Protection for Telecoms Power System**

Unit Code: DCPST3-007

### **Overview**

This unit aims to provide the learner's with the knowledge and understanding on how AC and DC power is generated and distributed within a telecoms power system and the protective measures applied to ensure safety in accordance with the relevant regulations.

The unit covers the following learning outcomes:

1. Understand the methods and technologies associated for the safe distribution and protection of AC and DC power distribution within a telecoms powered system

At the end of the unit learners will gain the relevant knowledge and understanding on how AC and DC power is distributed within a telecoms power system which will enable them to carry out their job role safely and in accordance with relevant regulations for DC Power Systems Electrical Installations for the Telecommunication industry.

Level 3

**Unit Title:**

## **Principles of Earthing and Bonding for Electrical Systems used within Telecoms Power Systems**

Unit Code: DCPST3-008

### **Overview**

This unit aims to provide the learner's with the knowledge and understanding of the purpose of earthing and bonding to recognise the difference and the purpose of protective conductors in electrical systems

The unit covers the following learning outcomes:

1. Understand the purpose and methods of earthing and bonding in telecoms power systems

At the end of the unit learners will gain the relevant knowledge and understanding for earthing and bonding to recognise the different and the purpose of protective conductors in electrical systems which will enable them to carry out their job role safely and competently in accordance with DC Power Systems Electrical Installations for the Telecommunication industry.

Level 3

**Unit Title:**

## **Principles of Lightning Protection Systems in Telecoms**

Unit Code: DCPST3-009

### **Overview**

This unit aims to provide the learner's with the knowledge and understanding the basic purpose and features that constitute a lightning protection system.

The unit covers the following learning outcomes:

1. Understand the purpose of a lightning protection system in telecoms

At the end of the unit learners will gain the relevant knowledge and understanding on the basic purpose and features that constitutes a lightning protection system which will enable them to carry out their job role safely and in accordance with relevant regulations for the DC Power Systems Electrical Installations for the Telecommunication industry.

Level 3

**Unit Title:**

**Cabling and Terminations for Telecoms Power Systems**

Unit Code: DCPST3-010

**Overview**

This unit aims to provide the learner's with the knowledge, skills and understanding the procedures for the correct selection and construction of wiring systems in telecoms DC power systems.

The unit covers the following learning outcomes:

1. Be able to demonstrate by completing the necessary requirements safely for DC cabling and terminations for telecoms systems

At the end of the unit learners will gain the relevant knowledge, understanding and skills following the correct procedures, selection and construction of wiring systems in telecoms DC power systems which will enable them to carry out their job role safely and competently in accordance with the requirements for DC Power Systems Electrical Installations for the Telecommunication industry.



Level 3

**Unit Title:**

**Inspection and Testing of DC Telecoms Power Circuits**

Unit Code: DCPST3-011

**Overview**

This unit aims to provide the learner's with the knowledge, understanding and skills for the safe procedures for inspection, testing and the certification of DC power Circuits in telecoms systems

The unit covers the following learning outcomes:

2. Understand battery technologies and how to maintain batteries safely
3. Be able to demonstrate safe battery testing, maintenance and handling activities

At the end of the unit learners will gain the relevant knowledge, understanding and skills for the safe procedures for inspection, testing and the certification of DC power Circuits in telecoms systems which will enable them to carry out their job role safely and in accordance with the requirements for DC Power Systems Electrical Installations for the Telecommunication industry.

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