

# STUDENT'S TASK BOOK

## ELECTRICAL INFRASTRUCTURE AND CONSTRUCTION

### NCV LEVEL 2



STUDENT NAME: \_\_\_\_\_

COLLEGE: \_\_\_\_\_

HOST COMPANY: \_\_\_\_\_

**NATIONAL CURRICULUM (VOCATIONAL)**

**Electrical Infrastructure and Construction**

**Elective: Electrical Systems and Construction**

**LEVEL 2**

**Workplace-Based Experience  
Learning Programme**

## The Swiss South African Cooperation Initiative

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The Swiss South African Cooperation Initiative (SSACI) is a public-private partnership in development. It has supported vocational training since 2001. SSACI's main aim is to open up pathways to skilled employment for young South Africans.

This logbook was developed by SSACI as part of its FET College Project. SSACI implemented this project with the Department of Education (now Department of Higher Education and Training) and a pilot group of colleges between 2008 and 2010.

The FET College Project provided workplace-based experience (WBE) for engineering students in two NC (V) programmes: Engineering and Related Design, and Electrical Infrastructure Construction. The aim of the project was to better align the curriculum in these two programmes with the needs of industry and produce more employable students. Through this project, WBE logbooks were developed and piloted at level 2, 3 and 4 for these two programmes. This is one of the logbooks developed.

It is hoped that the logbooks developed through the FET College Project are used as a prototype for WBE logbooks in other college programmes.

# Task checklist for participating in the WBE programme

<b>CHECKLIST INSTRUCTIONS</b>	
This checklist contains a summary of all the tasks you need to complete as part of your involvement in the workplace-based experience (WBE) programme. Some of these tasks must be completed before the start of your work placement, others during and some after. Use the checklist to help you keep track of what you have done and what you still need to do by ticking off each task after you have completed it.	
<b>THINGS TO DO BEFORE THE START OF YOUR WORK PLACEMENT</b>	
1.	If you are under 18, give your parent / guardian the letter from your college about your participation in the work placement programme (letter to be provided by your college)
2.	Fill in the 'employer and college contact information' form (section 1, page 9 of logbook)
3.	Fill in the 'student profile' form' (section 1, page 10 of logbook)
4.	Complete the 'learning agreement' (section 1, page 11 of logbook). Ensure that it is signed by a college representative, an employer representative and yourself
5.	Get a certified copy of your ID (or passport if you do not have an ID) and paste this into your logbook (section 1, page 12)
6.	Complete the 'indemnity form' (section 1, page 13 of logbook). If you are under 18, this needs to be signed by your parent or guardian. If you are over 18 you need to sign it
7.	With the help of a lecturer, tick off the curriculum checklist (section 2.3, page 16 of logbook). Both you and your lecturer need to sign the completed checklist
8.	Make transport arrangements to get to your host employer. Get transport money from your college, if this is being provided
9.	Find out what personal protective equipment (PPE) your host employer requires and make sure you have this
10.	Read through your logbook very carefully (especially section 5) before your placement so you know what information you will have to find in the workplace to complete it
<b>COMPLETE LOGBOOK DURING AND AFTER YOUR PLACEMENT</b>	
11.	Complete the 'workplace induction checklist' (section 3, page 19 of logbook) on the first day of your work placement
12.	During your work placement, fill in your daily journal (section 4, page 20 of logbook). Ask the person who supervised you each day to sign your journal
13.	During and after your placement, answer the questions in section 5 (page 30 of logbook)
14.	After your placement, evaluate your experience (section 6, page 37 of logbook)
15.	Prepare the summary on your work experience (section 7, page 38 of logbook)
<b>ENSURE EMPLOYER SECTIONS ARE COMPLETED (TO BE DONE NEAR THE END OF YOUR PLACEMENT BEFORE YOU LEAVE THE WORKPLACE)</b>	
16.	Ask your workplace supervisor to help you tick off the areas of exposure and practice you have received in the curriculum checklist (section 2.3, page 16 of logbook. Both you and your supervisor need to sign the completed checklist
17.	Ask your workplace supervisor to complete the evaluation on you (section 9, page 41 of your logbook)
18.	Ask your workplace supervisor to complete the letter about your placement (section 10, page 42 of logbook). This letter also needs to be stamped with the workplace stamp
<b>PROVIDE FEEDBACK ON YOUR WORKPLACE EXPERIENCE AFTER PLACEMENT</b>	
19.	Share your experience in the workplace with your college and other students. If you are required to do a presentation, use the summary you have prepared in section 7 of your logbook

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# PART 1

## INTRODUCTION, SUPPORTING DOCUMENTS AND PROGRAMME INFORMATION

### INSTRUCTIONS FOR PART 1

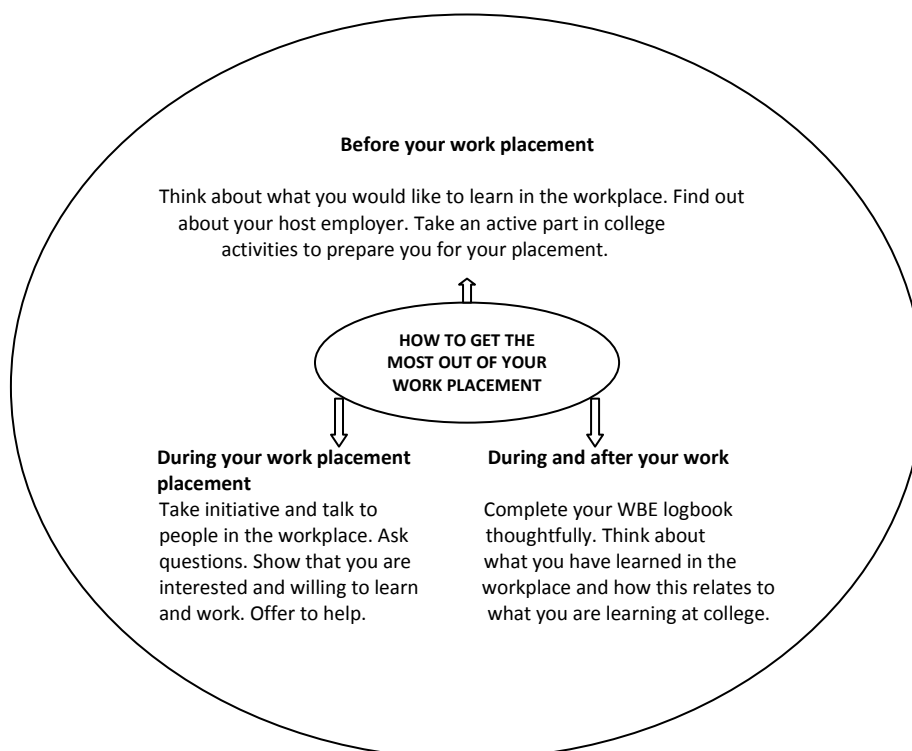
- **Please read the introduction and instructions in section 1 as soon as you can after getting this book.**
- **Before your placement**, complete the following documents in section 1:
  - Employer and college contact information
  - Student profile and contact information
  - Student learning agreement
  - Copy of ID
  - Indemnity form
- **To prepare for your placement** read the information about the workplace-based experience programme in section 2.
- Ensure that the curriculum checklist in section 2 is completed (**before and after your placement**).

## Section 1: Introduction and supporting documents

### 1.1 INTRODUCTION AND INSTRUCTIONS

#### The WBE programme and how to make the most of it

Welcome to the NC (V) Level 2 workplace-based experience (WBE) programme for Electrical Infrastructure Construction. For many of you this will be your first real exposure to a workplace that works in the field in which you are training. We hope that this will be a valuable experience for you. To gain the full benefit from your experience though, you must make the most of your time in the workplace. Take the opportunity to learn as much as you can about how your host employer operates and the kind of work your course is preparing you to do. Remember you will learn best by asking questions and, whenever possible, taking part in workplace tasks. The diagram below provides ideas on how you can get the most out of your work placement.



#### Introduction to the logbook and instructions on how to use it

Your WBE logbook is divided into three parts and ten sections.

**PART 1** includes information and documents that support your work placement. It also includes information on your WBE learning programme. It has two sections.

- **Section 1** introduces the programme and logbook and includes information on your host employer, your college, and you. It also contains the learning agreement and indemnity you will sign to be part of this programme and a copy of your ID. **Please make sure that all the forms and documents in section 1 are completed before you start your work placement.**

- **Section 2** provides information on the content and outcomes of this WBE programme. A curriculum knowledge and skills checklist is also included in this section. This checklist has two purposes. The first is to give your host employer information on what you are learning at college. This information will help the employer plan what work experience to provide you with during your placement. The second purpose is to provide a record of the actual workplace experience you received during your placement. **The curriculum checklist needs to be completed before you go into the workplace with the assistance of a lecturer and at the end of your work experience with the assistance of an employer representative.**

**PART 2** contains the activities you need to complete during and after your placement. There is also a section in this part that will be completed by your college workplace mentor. Part 2 has six sections.

- **Section 3** contains a workplace induction checklist that you should **complete on the first day of your placement.** This checklist will help you clarify what your host employer expects of you and how you will be supervised during your placement.
- **Section 4** is a daily journal. Use the journal to record what you see and do each day that you are in the workplace. You can also include drawings if you would like to. One page has been provided for each day of your placement. There is also a space at the bottom of each page for the person who supervised you to sign off for the day and, if they would like to, make a comment. **Your journal should be completed during your placement.**
- **Section 5** includes questions you need to answer about your WBE and what you have learned. You need to try to answer as many of the questions as possible. **This section should be completed during and immediately after your placement while your memory of it is still fresh.**

Read through section 5 very carefully before the start of your placement so you know what you need to find out in the workplace to answer the questions. This is important as you might not be able to keep your logbook with you at all times due to its size. If this is so, it is suggested you carry a small notebook around with you to make notes in while you are in the workplace. (If your college or employer does not provide a notebook, you will have to buy one). You can then complete your logbook from your notes. **If you are using a small notebook, it is suggested that you make some notes in it to remind yourself about the information you need to collect.**

- **Section 6** gives you an opportunity to evaluate your workplace-based experience. **This section needs to be completed at the end of your placement.**
- **Section 7** requires you to prepare a brief summary on your work placement. This summary can then be used for the presentation your college may require you to do for other students. **Complete section 7 after your placement** using the information you have collected in the other sections.
- **Section 8** provides a space for your college workplace mentor to comment on your placement and logbook. If your mentor visits you while you are in the workplace, he or she may write a comment at this point. Otherwise, he or she will comment after you have completed your placement and handed in your logbook.



**PART 3** includes two sections which need to be completed by your host employer at the end of your placement. **You need to make sure that both sections in this part are completed before you leave the workplace.**

- **Section 9** is an employer evaluation of your performance during your placement.
- **Section 10** includes a letter which confirms your placement with the employer and indicates what work experience you received. Make sure that the employer puts its stamp at the top of the letter.

### **Task checklist for participating in the WBE programme**

A one page checklist of all the tasks you need to complete as part of your involvement in the WBE programme is include at the beginning of your logbook on page 3. Use this list to help you keep track of what you need to do before, during and after your placement. Tick off each task when you have completed it.

**What to do if you have a problem during your work placement**

If you have a problem, call your college workplace mentor as soon as possible and discuss it with him or her.

Name of college workplace mentor.....

Phone number .....

## 1.2 EMPLOYER AND COLLEGE CONTACT INFORMATION

### Employer contact information

Name of employer		
Address of employer		
Employer phone number		
Main employer contact person	Name	
	Contact number	
Second employer contact person	Name	
	Contact number	

### College contact information

Name of college		
Information on the college campus at which the student is based	Name of campus	
	Campus address	
	Campus phone number	
The coordinator of the work placement programme	Name	
	Contact number	
College workplace mentor	Name	
	Contact number	

### 1.3 STUDENT PROFILE AND CONTACT INFORMATION

Full name					
Student contact number					
Address					
Name of parent / guardian				Contact number parent / guardian	
ID number				Age	
Name of medical aid (if you have one)				Medical aid no.	
Drivers licence	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	Means of transport
Last school attended				Highest school qualification	
NC(V) programme				Level	
Why I chose to study this NC(V) programme					
My future goals					
What I hope to learn during my workplace experience					
Previous work experience I have had					

## 1.4 STUDENT LEARNING AGREEMENT

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Congratulations! You have been selected to participate in the workplace-based experience (WBE) programme for your college programme. This is a wonderful opportunity for you to learn about your chosen occupation and improve your employment prospects.

You will be placed at (employer) .....

for..... days, from (start date)..... to (end date).....

You need to remember that you are now an ambassador for your college. Your behaviour in the workplace hosting you thus needs to be excellent. During your work placement you need to comply with your college's code of conduct as well as the rules of your host employer. Any problems or discipline matters that arise will be managed by your college.

### During your work placement will be required to:

- Adhere to the work hours required by the employer
- Follow the instructions of the workplace representatives responsible for you
- Comply with safety and other rules in the workplace. This includes following the dress code and wearing the required personal protective equipment (PPE)
- Be punctual
- Maintain professional behaviour at all times
- Take responsibility for making your workplace experience valuable
- Complete the activities in your logbook
- Ensure that your host employer completes and signs off the required sections in your logbook

### When you return to the college you will be required to:

- Hand in your fully completed logbook
- Give feedback on your workplace-based experience

Student	For the college	For the employer
Name	Name	Name
.....	.....	.....
Signature	Signature	Signature
.....	.....	.....
Date	Date	Date
.....	.....	.....

**1.5 CERTIFIED COPY OF ID OR PASSPORT (Paste in)**

## 1.6 INDEMNITY FORM

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### INSTRUCTIONS FOR COMPLETING THE INDEMNITY FORM

- If you are under 18, your parent or guardian needs to complete the indemnity form and sign it. If you are over 18, you need to complete and sign it yourself.
- Depending on who completes the form, cross out the part that is not relevant. For instance, if you complete and sign the form, cross out the phrase 'parent guardian of the trainee' at the top of the form.

I \_\_\_\_\_ (full name and surname), the parent/guardian of the trainee / the trainee (cross out part not relevant), hereby indemnify \_\_\_\_\_ (name of temporary host employer), its employees and its agents against any claims of any nature whatsoever which may be brought against them by the trainee, \_\_\_\_\_ (full name and surname of the trainee) or any third party or other person claiming on behalf of the trainee arising out of the trainee's death or injury or loss of or damage to the trainee's property as a result of entering into and remaining on \_\_\_\_\_ (name of temporary host employer)'s premises, whether the claim is based on \_\_\_\_\_ (name of temporary host employer) negligence or on the negligence of any of its employees or agents for which they may be liable.

\_\_\_\_\_  
Name (full name and surname)

\_\_\_\_\_  
Designation (parent/guardian or trainee)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

## Section 2: Programme overview

### INSTRUCTIONS FOR SECTION 2

- Read the information about the WBE programme in 2.1 and 2.2 **(before your placement)**.
- Complete the curriculum checklist in section 2.3 **(before and after your placement)**.

### 2.1 OBJECTIVES AND OUTCOMES OF THE WORKPLACE-BASED EXPERIENCE PROGRAMME

#### Programme objectives

To provide you with work exposure and experience in real workplaces that is relevant to your field of study and thereby:

- Develop your understanding of the industry you are training to work in and the career you are studying toward;
- Improve your competence and work-readiness; and
- Improve the alignment between the NC(V) and industry.

#### Learning outcomes

By the end of the workplace-based experience programme you will be able to:

- provide a general description of the work and work process of your host employer;
- describe the work of one or more artisans or technical workers in the workplace;
- discuss and comment on the safety procedures followed by the employer and the artisans or technical workers you observed;
- describe the quality procedures followed by the employer and the artisans or technical workers you observed; and
- Share your experience in the workplace with your classmates through an oral presentation.

## 2.2 WORKPLACE-BASED EXPERIENCE PROGRAMME THEMES

The WBE learning programme is designed to build on what you are learning at college. It has four broad themes:

- Theme 1: Work and work processes in a workplace
- Theme 2: The job of an artisan or technical worker
- Theme 3: Safety in the workplace
- Theme 4: Quality: Ensuring that work is correct and of a high standard

### **Theme 1: Work and work processes in a workplace**

This theme focuses on what workplaces working in your field of training do and how they work. The workplace you visit will be working in the manufacturing, maintenance, electrical, or electronics fields. While in the workplace you could observe or participate in tasks that might involve diagnosing and repairing faults, routine maintenance, assembly of components, or installations. In the process you will be exposed to different types of tools, equipment and machines. The actual exposure you get will depend on the type of workplace you visit and the way it structures your time with it. However, it is hoped that during your placement you will be exposed to whole work processes from the beginning to the end of a task and to the work of different departments. This will help you to develop an understanding of the work done by the workplace and the way different jobs work together to make this possible.

### **Theme 2: The job of an artisan or technical worker**

The focus of this theme is on the actual work done by different kinds of artisans and technical workers who work in your field of training. During your work placement, you will observe, work with and talk to people who work in your trade area. This will give you a better idea of the work you are training to do. In addition, you will be able to see how it fits into the whole work process of a workplace. Through working with artisans and technical workers you will also have a chance to increase your knowledge and skills in your trade area.

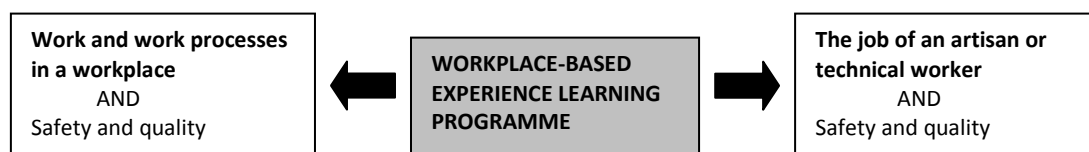
### **Theme 3: Safety in the workplace**

Safety is a central part of every aspect of the work of the kinds of workplaces you are training to work in. As such, working safely is an important part of your college curriculum and is a key theme of this WBE learning programme. During your work placement you will be exposed to how safety is practiced in a real workplace. You will find out about your host employer's safety rules and the safety procedures followed by each artisan or technical worker you work with.

### **Theme 4: Quality: Ensuring that work is correct and of a high standard**

Like safety, quality underlies the work of any workplace. Good quality work is essential for employers to survive and succeed in their industry. During your work placement you will be exposed to how quality is practiced in a real workplace. You will find out about your host employer's quality procedures and what artisans and technical workers do to ensure the quality of their work.

The four themes work together in the following way:





## 2.3 CURRICLUM KNOWLEDGE AND SKILLS CHECKLIST

The curriculum checklist below provides a summary of the main content areas you should have covered in your NC(V) programme by the end of the year.

**Before your work placement**, get a lecturer to help you tick off all the items in the checklist that you have already covered at college. Tick the theory column if you have only covered the item theoretically. If you have covered it theoretically and practically, tick both the theory and practice columns. Both you and the lecturer need to sign that the information included in the list is correct. This information will be useful to the workplace hosting you as it will be able to see what you know and can practically do. This will help it to provide you with relevant work exposure.

**At the end of your work placement**, ask your workplace supervisor to help you tick off the items in the checklist that you observed or were practically involved in. Both you and your workplace supervisor need to sign that the information included in the list is correct. **Make sure that your checklist is properly completed so that you have an accurate record of your workplace experience.** This will be helpful when you are trying to find work or get into an apprenticeship.

### NC(V) ELECTRICAL INFRASTRUCTURE CONSTRUCTION

#### Elective: Electrical Systems and Construction

Level 2

#### SUBJECTS

Fundamental subjects	Core subjects
<ul style="list-style-type: none"> <li>• Language</li> <li>• Mathematics or Mathematical Literacy</li> <li>• Life Orientation</li> </ul>	<ul style="list-style-type: none"> <li>• Electrical Principles and Practice</li> <li>• Workshop Practice</li> <li>• Electronic Control and Digital Electronics</li> <li>• ELECTIVE: Electrical Systems and Construction</li> </ul>

#### KNOWLEDGE AND SKILLS CHECKLIST

Knowledge and skills developed			Confirmation of training provided			
			Training provided in COLLEGE		Observation / practice in the WORKPLACE	
			Theory	Practice	Observation	Practice
TOPIC 1	Correctly select use, care for and maintain tools and equipment	<b>Hand tools</b> , e.g. screwdrivers, spanners, pliers, hammer, wire stripper and side cutter and crimping tools				
		<b>Power tools and equipment</b> , e.g. drilling machines (hand held & pedestal), angle grinder, orbital sander and jigsaw				
		<b>Marking off equipment</b> , e.g. scribe, rulers, punches, measuring tapes and squares				
		<b>Electrical measuring and testing equipment</b> , e.g. tong-tester, meggar and multimeters				
		<b>Electronic measuring instruments</b> , e.g. digital multimeter or oscilloscope				
TOPIC 2	Basic understanding of electrical principles, materials and components, and wire ways	Distinguish between <b>DC, AC, single phase and three-phase AC supply systems</b>				
		Do <b>calculations to implement load balancing</b> in a three-phase supplied system				
		Do <b>calculations for resistors and grouping of cells</b> in series, parallel and series-parallel				
		Identify common <b>electrical materials and components</b> (including different types of conductors, cords and cables)				
		Identify <b>materials and components used in the distribution of electricity</b>				
		Identify <b>different types of wire ways</b> and know how conductors and cables are installed in these				
		<b>Can use look-up tables</b> to select wire and cable sizes				

TOPIC 3	Read and draw electrical diagrams	Diagrams of electrical sub-circuits, e.g. lights / socket outlets from a circuit breaker; a geyser circuit with isolator; a stove circuit with isolator (single and three phase)				
		Wiring diagrams (of electrical installations, motors, transformer and relay circuits)				
TOPIC 4	Know how to join and cut electric components	Explain methods to join electric cords, conductors and electric cables				
		Join low voltage cables with terminal blocks & joining kits				
		Solder electronic circuitry and join electric cables				
		Weld (basic gas and arc welding)				
		Gas (oxy-acetylene) cutting				
TOPIC 5	Understand how to test and find faults in electrical equipment & installations	Know different tests to use, e.g. insulation resistance test, earth & earth leakage test, earth continuity test, replacing of fuses, visual and mechanical inspection				
		Test and find faults in electrical components and equipment, e.g. circuit breakers, switches, cabling, thermostats, transformers & earth leakage relays				
TOPIC 6	Know the process and regulations for testing, installing and replacing basic electrical circuits and systems	Distribution board (single phase as in typical household)				
		Electrical supply entry to a dwelling (cables and conductors)				
		House wiring (single phase only): lighting sub-circuit and socket-outlet				
		Circuits in fixed appliances: stove sub-circuit and geyser				
		Electric metering units or measuring instruments				
		Low voltage transformers				
		Earthing and bonding on electrical installations				
TOPIC 7	Inspect, clean, connect and disconnect electric machines	AC motors (follow correct procedures and regulations)				
		DC motors (follow correct procedures and regulations)				
		Generators (follow correct procedures and regulations)				
		Alternators (follow correct procedures and regulations)				
TOPIC 8	Basic understanding of electronic control and digital electronics	Know function of basic electronic components				
		Read and draw basic electronic circuit diagrams				
		Construct basic series and parallel circuits on breadboards				
		Explain digital electronic principles				
		Know functions of basic components of a personal computer				
		Basic understanding of function and construction of transducers used in process control				
TOPIC 9	Use safe and correct trade and worksite procedures	Use safety measures and equipment and work safely with equipment and machines including live equipment				
		Use standard electrical trade practices and procedures, e.g. Code of Practice				
		Use a full and correct work procedure for tasks, e.g. plan & prepare, carry out task, check compliance / quality, report on work, and carry out housekeeping				
		Read a job card				
		Report and record all job activities, problems and incidents according to accepted standards				
		Use lifting techniques correctly				
		Basic knowledge on how to handle & store chemicals				
		Apply basic first aid procedures				
		Apply basic fire fighting				
			Signatures (College)	Signatures (Workplace)		
			..... Lecturer	..... Company rep		
			..... Student	..... Student		

# PART 2

## PROGRAMME ACTIVITIES

### INSTRUCTIONS FOR PART 2

There are six sections in part 2.

- **Section 3** contains a workplace induction checklist that you should **complete on the first day of your placement**. This checklist will help you clarify what your host employer expects of you and how you will be supervised during your placement.
- **Section 4** is a daily journal. Use the journal to record what you see and do each day that you are in the workplace. **This section should be completed during your placement at the end of each day.**
- **Section 5** includes questions you need to answer about your WBE and what you have learned. You need to try to answer as many of the questions as possible. **This section should be completed during and immediately after your placement while your memory of it is still fresh.**
- **Section 6** gives you an opportunity to evaluate your workplace-based experience. **This section needs to be completed at the end of your placement.**
- **Section 7** requires you to prepare a brief summary on your work placement. This summary can then be used for the presentation your college may require you to do for other students. **Complete section 7 after your placement** using the information you have collected in the other sections.
- **Section 8** provides a space for your college workplace mentor to comment on your placement and logbook. **This section will be completed by your mentor during or after your placement.**



## Section 4: Daily journal

### INSTRUCTIONS FOR COMPLETING THE DAILY JOURNAL

- Make a journal entry for each day you are in the workplace. One page has been provided for each day of your placement up to a maximum of five days.
- Your journal should be a daily record of your workplace experience. Use it to describe what you see and do each day. You can also include drawings, diagrams, notes, calculations or workplace documents.
- A few extra pages have been included at the end of the journal if you need more space. If this is still not enough space, you can paste or staple more pages into your logbook.
- Ask the person who supervised you each day to sign off for that day in the place provided and, if they would like to, make a comment about how the day went.















A series of 25 horizontal dotted lines for writing.





# Section 5: WBE programme questions

**INSTRUCTIONS FOR COMPLETING SECTION 5**

- Please answer as many of the questions in this section as you can.
- You do not need to answer them in a particular order. The information you collect on a day-to-day basis will depend on how your host employer structures your placement. As you get information, you can fill it in.

## 5.1 PROFILE OF THE WORKPLACE

5.1.1 What does the workplace hosting you do? If it makes things, name some of its products. If it provides services, list these.

.....

.....

.....

.....

5.1.2 Name the main function areas / departments that make up the business (e.g. administration, sales and services, maintenance, installation, etc.)? Approximately how many people work in each area?

Function area	Approximate number of people in area

5.1.3 Find out what the rules of the workplace are. Write down four you think are important.

.....

.....

.....

.....

.....

.....

5.1.4 What are the main work values / ethics in the workplace? Examples of work values / ethics are: customer service, confidentiality and responsibility.

.....

.....

.....

.....

5.1.5 What is your impression of the way people in the workplace work together? For instance, are they polite and respectful to each other?

.....

.....

.....

.....

.....

**5.2 WORKPLACE EQUIPMENT AND WORK PROCESSES**

5.2.1 Name five instruments and tools (hand or power) often used by the workplace. Note what they are used for. Then indicate if your college has similar tools.

Instruments and tools	What is this instrument or tool used for?	Is there is a similar tool or instrument in your college workshop?	
		Yes	No
1.			
2.			
3.			
4.			
5.			

5.2.2 Name three machines or pieces of equipment used by the workplace. Note what they are used for. Then indicate if your college has similar machines or equipment.

Machines or equipment used	What the machine or equipment is used for	Is there is a similar machine or piece of equipment in your college workshop?	
		Yes	No
1.			
2.			
3.			



5.2.3 Did you observe or participate in maintenance or repair of any components, machines, equipment or installations? Tick yes or no.

Yes		No	
-----	--	----	--

If yes, fill in the spaces below for one of these.

Name of component, machine, equipment, or installation	What was done to the component, machine, equipment or installation?	Job of person who did the work

5.2.4 Find out about the workplace's approach to maintenance and repair of components, machines, equipment or installations. Complete the table below.

Does the workplace follow any of the procedures below?					
• Maintenance is carried out when a problem with a machine, piece of equipment or installation is reported.	Yes		No		N/A
• Maintenance is carried out according to a schedule.	Yes		No		N/A
• The machine or piece of equipment to be maintained or repaired is locked out.	Yes		No		N/A
• One section is shut down and maintained at a time.	Yes		No		N/A
• The workplace has a shutdown period. Maintenance is then done on all sections at the same time.	Yes		No		N/A
If there is a shutdown period, answer the following questions					
• How long is the shutdown period?					
• When is the shutdown?					

### 5.3 SAFETY IN THE WORK PROCESS

5.3.1 Find out about the workplace's general safety precautions and describe three that you think are very important to this workplace.

Safety precautions followed	Have you learned about this precaution at college?	
	Yes	No

5.3.2 Did you see any of the following safety signs in the workplace?

Safety signs	Tick if you saw this sign	In what area was the sign?
Hard hat		
Safety glasses		
Ear protection		
Safety boots		

5.3.3 Did you see any warning, prohibitive or fire equipment signs? If yes, write down the name of one warning, one prohibitive and one fire equipment sign you saw.

Warning sign*	Prohibitive sign**	Fire equipment sign

\* Warning signs are signs that warn you about dangers

\*\* Prohibitive signs are signs that tell you what you are not allowed to do

5.3.4 Why do you think that the workplace takes some safety precautions and not others? For example, why would ear protection be needed in some areas and not others?

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5.3.5 What recommendations, if any, do you have about how safety could be improved in the workplace you visited?

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**5.4 QUALITY: ENSURING THAT WORK IS CORRECT AND OF A HIGH STANDARD**

5.4.1 Are there any quality signs or notices in the workplace? If yes, write down what at least one of them says.

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5.4.2 Is there a quality section or department in the workplace? Tick yes or no.

Yes		No	
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5.4.3 How does the workplace ensure that its work is of a high standard? Answer the questions below.

<b>What kinds of tests or checks are done to ensure proper functioning and good quality?</b>
<b>Who checks the functioning and quality of the work done?</b>
<b>When is the work checked?</b>

### 5.5 THE JOB OF AN ARTISAN OR TECHNICAL WORKER

Answer the questions below about one of the artisans or technical workers you observed or worked with during your time in the workplace.

<b>Job title of the artisan or technical worker</b>	
<b>The job of an artisan or technical worker</b>	What is this artisan or technical worker's job? ..... ..... .....
	In what department does he or she work? ..... .....
	How does this person's work contribute to the work of the workplace? ..... ..... ..... .....
	What task did the person carry out while you were with him or her? ..... ..... ..... ..... ..... ..... .....
<b>S a</b>	What safety

	clothing or equipment he or she use?	..... ..... ..... .....
	What main safety precautions did he or she follow?	..... ..... ..... ..... .....
	Were the safety precautions followed the same as the ones you have learned about at college?	Tick the correct answer: <ul style="list-style-type: none"> <li>• All of the safety precautions followed were the same as the ones I have learned about .....</li> <li>• Some of the safety precautions followed were the same as the ones I have learned about .....</li> <li>• None of the safety precautions followed were the same as the ones I have learned about .....</li> </ul>
	If there were differences between the safety precautions followed and the ones you have learned about, write down at least one difference you observed?	One safety precaution which is different to what I have learnt about is: ..... ..... .....
	Why do you think this difference might exist?	I think that this difference might exist because: ..... ..... .....
	Do you have any recommendations about how safety could be improved in this artisan or technical worker's job?	..... ..... ..... .....
<b>Quality procedures followed by the artisan or technical</b>	How does the artisan or technical worker ensure his or her work is of a high standard? For instance, what checks does he or she do to ensure correctness, proper functioning and good quality?	..... ..... ..... ..... ..... .....

	Why is it important for this artisan or technical worker to work to particular standards? For instance, what might happen if he or she did not?	..... ..... ..... ..... ..... ..... .....
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# Section 6: Student evaluation of workplace-based experience

**INSTRUCTIONS FOR COMPLETING THE EVALUATION**  
Answer the questions that follow about your workplace experience.

1. Did you feel adequately prepared by your college for your work placement? Explain your answer. For instance, did you have some information about the employer hosting you? Did you know what would be required of you and how to complete your logbook?

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2. Was your workplace-based experience relevant to what you have learned in your programme at college? If yes, give a few examples of how it related to this.

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3. Rate and comment on the value of your workplace-based experience.

Not at all useful	Not that useful	Fairly useful	Very useful	Extremely useful

Give reasons for your rating .....

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.....

What did you find most valuable about your workplace-based experience?

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.....  
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What did you find least valuable about your workplace-based experience?

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4. How do you think your experience could have been improved?

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5. Do you have any other comments?

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# Section 7: Headings for presentation on workplace-based experience

## INSTRUCTIONS FOR COMPLETING SECTION 7

Use the headings below to prepare a brief summary on your workplace-based experience. If you need to make a presentation, you can then refer to the information in this section.

1. What does the employer do? Name some of its products and / or services.

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2. Give an overview of the job of an artisan or technical worker you observed or worked with?

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3. Name some of the essential tools, machines and equipment used in the workplace.

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4. What main safety precautions are taken in the workplace?

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5. How does the workplace ensure the quality of its work (i.e. that it is accurate and of a high standard).

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6. What is your impression of the way people in the workplace relate to each other and work together?

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7. Was this learning experience valuable for you? Give a reason for your answer.

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## Section 8: College mentor comment

### INSTRUCTIONS

This section has been provided for your college workplace mentor to comment on your placement and logbook. If your mentor visits you while you are in the workplace, he or she may write a comment at this point. Otherwise, he or she will comment after you have completed your placement and handed in your logbook.

(To be completed by college mentor)

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Mentor name	Signature	Date



# PART 3

## EMPLOYER EVALUATION OF STUDENT AND LETTER CONFIRMING WORK EXPERIENCE PROVIDED

### INSTRUCTIONS FOR PART 3

Part 3 includes two sections which need to be completed by your host employer at the end of your placement. **You need to make sure that both sections in this part are completed before you leave the workplace.**

- **Section 9** is an employer evaluation of your performance during your placement.
- **Section 10** includes a letter which confirms your placement with the employer and indicates what work experience you received. Make sure that the employer puts its stamp at the top of the letter.

# Section 9: Employer evaluation of student

Please complete the following evaluation on the student hosted.

Name of student .....

1. Rating of students. Circle the number that best applies in each case where 1 = very poor, 2 = poor, 3 = fair, 4 = good, and 5 = very good.

ITEM BEING RATED	RATING				
<b>Knowledge of technical field.</b> The student displayed knowledge of his / her technical field appropriate to his / her level of study.	1	2	3	4	5
<b>Practical competence.</b> The student was able to effectively carry out tasks at a level appropriate to his / her level of training.	1	2	3	4	5
<b>Ability to learn.</b> The student was able to easily learn new things.	1	2	3	4	5
<b>Interest in work.</b> The student asked questions and showed an interest in the work.	1	2	3	4	5
<b>Takes initiative.</b> The student looked for work to do and acted voluntarily.	1	2	3	4	5
<b>Communication skills.</b> The student was able to make her / himself adequately understood and could follow spoken and written instructions.	1	2	3	4	5
<b>Punctuality.</b> The student arrived at work on time and kept time.	1	2	3	4	5
<b>Housekeeping and tidiness.</b> The student displayed the correct attitude to housekeeping activities and willingly engaged in these.	1	2	3	4	5
<b>Safety.</b> The student understood and followed safe work practices.	1	2	3	4	5
<b>Attitude and cooperation.</b> The student showed willingness and had a good attitude and was able to get along with others.	1	2	3	4	5

2. Overall comments on the student's performance

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3. Does the student display the qualities you would look for in an employee? Please explain.

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Name ..... Job title.....

Signature .....

# Section 10: Employer letter to confirm student work experience provided

Employer letterhead / stamp

Date.....

Confirmation of student work experience

This letter serves to confirm that .....(name of student)  
spent .....(number of days) with .....(name of employer)  
from ..... to ..... (placement dates) to gain workplace  
experience. At the time, the student was completing level 2 / level 3 / level 4 (circle relevant  
year of study) of the National Certificate (Vocational) in Electrical Infrastructure Construction at  
..... (name of college). Key areas in which work  
exposure and experience were provided include:

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.....  
.....

.....  
Name of employer representative

.....  
Job title

.....  
Signature