

Pearson BTEC Uzbekistan Level 4 Qualifications in

Warehouse Supervision

Unit 6: The Impact of Warehousing on the Environment

Teacher Resources

Issue 1



Edexcel, BTEC and LCCI qualifications

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Contents

Introduction	1
Unit 6: The Impact of Warehousing on the Environment	3
Delivery guidance	3
Scheme of work	9
Lesson plan	27

Introduction

This resource booklet is a companion to the BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision specification. The specification tells you what must be taught and what must be assessed. This resource booklet gives you suggestions and ideas as to how you can do this.

This booklet gives you ideas for teaching and learning, including practical activities, realistic scenarios, ways of involving employers in delivery and of managing independent learning, and how to approach assessments. The booklet also shows you how the specification content might work in practice and inspires you to start thinking about different ways of delivering your qualification.

This resource booklet gives you:

- guidance on how to deliver the unit
- recommended resources to support the delivery of the unit
- a scheme of work that show the topics, activities and assessments covered in the unit
- lesson plans with detailed guidance on how to deliver the lessons in the unit

The information in this resource booklet has been put together by teachers who have been close to the development of the qualification and so understand the challenges of finding new and engaging ways to deliver BTEC qualifications.

The delivery guidance in this booklet gives you information on what you need to consider as you plan the delivery of the unit. This includes suggestions on how to approach the learning aims and unit content, as well as ideas for interesting and varied activities. You will also find tips and ideas on how to plan for and deliver your assessments.

We have included a list of carefully selected resources for the unit. This resource list offers suggestions for books, websites and videos that you can direct your learners to use and/or that you can use to complement delivery.

Unit 6: The Impact of Warehousing on the Environment

Delivery guidance

Approaching the unit

The environment and sustainability are a concern of everyone and warehousing has a part to play in making sure operations, processes and activities are contributing positively to the local, national and global environment.

The purpose of this unit is to give learners an understanding of the warehouse operations, processes and activities that impact positively as well as negatively on the environment. With support from Uzbekistan warehouse businesses and State Ministries, learners will investigate a range of warehouse businesses and assess how they control pollution, manage waste and conserve energy. Learners will then explore ways in which a selected warehouse business can improve its impact on the environment and achieve commercial and operational aims.

You can use a range of delivery methods in this unit, including:

- class- and small-group discussions to identify activities and operations that impact the environment and other considerations that a warehouse business needs to take into account
- case studies to illustrate measures to reduce the impact of warehouse activities and operations on the environment and ways to improve sustainable practice
- guest speakers from different organisations to explain current warehouse activities and operations, current policies and processes that are environmentally friendly
- workplace visits to functioning warehouses to observe current supervision of warehouse activities and operations and any current sustainability initiatives being implemented

- research activities using the internet and/or library resources to investigate the topics covered in the unit in particular Uzbekistan initiatives that focus on environmental sustainability
- trade journals and company brochures to gain a better understanding of the industry and its impact on the environment.

Group work is an acceptable form of delivery but you must ensure that each learner produces their own evidence that is sufficient for assessment.

You can involve local employers in the delivery of this unit by:

- inviting them as guest speakers
- giving learners access to their premises so that they experience real work environments in warehousing
- giving learners access to their business materials as the basis for case studies and exemplars.

Learners should have access to:

- a range of warehouse businesses to observe operations, processes and activities
- legislation relating to ensuring a sustainable environment
- policies that encourage environmentally friendly operations, processes and activities
- information technology
- other agencies connected to warehousing whose operations, processes and activities encourage employees to contribute positively to the environment.

Getting started

This gives you a starting place for one way of delivering the unit. It is based on the recommended assessment approach given in the specification.

Unit 6: The Impact of Warehousing on the Environment
<p>Introduction</p> <p>Begin by introducing the unit specification.</p> <p>This unit encourages learners to use the information learned from the three mandatory units to consider the effect warehouse processes, operations and activities have on the environment. A visit to a warehouse has been scheduled for this unit even though learners will have accessed them for previous units. It is highly recommended that a specific environmental focus be agreed with the organisation prior to the visit.</p>
Learning aim A – Explore the supervision of warehouse operations and their impact on the environment
<p>The delivery of this learning aim focuses on how the warehouse supervisor’s role and responsibilities for efficient warehouse operations. From the beginning of this learning aim, learners must have access to those who are involved with warehousing and protecting the local, national and internal environment. There are two assessments for this learning aim.</p> <p>Learners must learn about a range of issues facing the environment resulting from warehousing processes, operations and related activities such as the consumption of resources and disposal of waste. Also, as warehousing is part of the supply chain, learners must be made aware of the impact consumerism has on the environment and therefore the negative effect this and the other issues have. Learners need to investigate contrasting warehouse businesses.</p> <p>Learners must understand initiatives that Uzbekistan has created to encourage environmental sustainability and how these impact on warehousing as a commercial business. Learners can participate in a game that involves costs and the benefits of change against supposed economic gains, to emphasise that financial benefit is not always the desired short-term outcome.</p>

Unit 6: The Impact of Warehousing on the Environment

Learning aim B – Examine sustainable measures available to warehouse businesses and their benefits for the environment

There are two tasks for this learning aim.

Learners will need to access warehouse business policies and must understand the actions warehouse employees can take to reduce environmental impacts including effective training. The role legislation plays in reducing negative environmental impacts needs to be emphasised as well as other control measures such as international and national initiatives.

Learners must have access to a range of different warehouse organisations and therefore a guest speaker forum will enable them to gain first-hand information on how these organisations incorporate sustainability into their:

- aims
- objectives
- processes
- practices
- activities.

It is important that learners apply this knowledge and are encouraged to create their own policies, which include the demand for sustainable practices from others such as external consultants, suppliers and other agencies. Learners also need to learn about the benefits of these sustainable practices for the environment.

Learners must be encouraged to present their own research projects in order to investigate what contrasting warehouse businesses may already be implementing to improve environmental sustainability such as

- conservation
- off-setting
- educating change
- sourcing and using alternative methods and/or materials.

Learners need to look at how sustainable practice can benefit the business in terms of:

- long-term consumer and supplier loyalty
- improved relationships with others including employees
- financial incentives and benefits.

Unit 6: The Impact of Warehousing on the Environment
Learning aim C – Investigate ways warehouse businesses can improve their sustainable practice
<p>This learning aim focuses on learners reviewing one selected warehouse business's current processes, operations and activities that impact on the environment and how these processes, operations and activities can be improved so that they impact positively on the environment. There is one assessment for this learning aim.</p> <p>Learners must know about applying different primary and secondary research methods to review current processes, operations and activities. Following their research and data collection, learners must produce a plan that clearly shows recommendations for improvement and how these can be implemented and further reviewed as part of the continuous improvement cycle.</p> <p>Learners must be able to independently justify their recommendations in relation to the environment and meeting business needs.</p>

Details of links to other BTEC units and qualifications

This unit links to:

- Unit 2: Lead and Supervise a Team in a Warehouse Environment
- Unit 3: Manage Warehouse Processes
- Unit 4: Customer Service within Warehousing
- Unit 5: Compliance in a Warehousing Environment
- Unit 7: Stock Control in Warehousing.

Resources

Websites

www.greenpeace.org/international/act

The Greenpeace website, which gives information relating to the need for systemic change to avoid climate chaos.

www.nationalgeographic.com/environment/global-warming/pollution/

The National Geographic website, which gives information relating to causes of air pollution.

www.naturvernforbundet.no/international/environmenta

www.uznature.uz/en

The website for the State Committee of the Republic of Uzbekistan on Ecology and Environmental Protection, which gives information about its environmental protection activities.

www.thebalancesmb.com/how-long-does-it-take-garbage-to-decompose-2878033

A website giving information for small businesses on the decomposition of materials that may be used in their products.

www.uz.undp.org

The United Nations Development Program website for Uzbekistan, which gives information about Uzbekistan's new approach to environmental sustainability (including their policy, goals and recent focuses, such as waste collection, transportation, waste disposal, regulations and control of natural resources).

Pearson is not responsible for the content of any external internet sites. It is essential for teachers to preview each website before using it in class so as to ensure that the URL is still accurate, relevant and appropriate. We suggest that teachers bookmark useful websites and consider enabling learners to access them through the school/college intranet.

Scheme of work

Unit	Unit 6: The Impact of Warehousing on the Environment
Guided Learning Hours	60
Number of lessons	20
Duration of lessons	3 hours
Links to other units	<p>Unit 2: Lead and Supervise a Team in a Warehouse Environment</p> <p>Unit 3: Manage Warehouse Processes</p> <p>Unit 4: Customer Service within Warehousing</p> <p>Unit 5: Compliance in a Warehousing Environment</p> <p>Unit 7: Stock Control in Warehousing</p>

Key to lesson types			
AW	Assignment writing	RS	Revision session
GS	Guest speaker	V	Visit
IS	Independent study	WE	Work experience

#	Topic	Lesson type	Suggested activities	Resources
1	<p>Unit introduction</p> <p>A1 Supervision of warehouse activities and operations</p> <p>A2 Environmental impacts of warehouse activities and operations</p>		<ul style="list-style-type: none"> • Lead in: Introduce the unit and overview of the main topics covered. Explain the different assessment processes, focusing on Assessment Workbook Task 1. • Small group activity: Learners complete a word search activity sheet. • Individual activity: Learners investigate the role and responsibilities of the warehouse supervisor in terms of operations and activities affecting environmental issues. • Teacher-led discussion: Learners share their findings. • Teacher presentation: Present environmental issues and impact of different kinds of warehouse. • Paired activity: Learners consider how the environmental impact of warehouses varies. • Teacher-led presentation: Present information about the guest speaker who will visit in Lesson 2. • Whole group activity: Learners prepare questions for the guest speaker. • Plenary: Summarise and check learning using questions and answers. • Private study: Learners revisit Units 1 and 3. 	<p>Unit specification</p> <p>Assessment Workbook Task 1</p> <p>Word search activity sheet</p> <p>Recording method such as flip charts/smart board</p> <p>Presentation on environmental issues</p> <p>Presentation on guest speaker in Lesson 2</p> <p>Computers with internet access</p>

#	Topic	Lesson type	Suggested activities	Resources
2	A1 Supervision of warehouse activities and operations A2 Environmental impacts of warehouse activities and operations	GS	<ul style="list-style-type: none"> • Lead in: Recap previous lesson. • Teacher-led discussion: Discuss differences in operations relating to environmental sustainability. • Guest speaker: Guest speaker talks about the relationship between warehouse activities and operations and the environment. Learners ask guest speaker questions prepared in previous lesson. • Small group activity: Learners identify impacts from warehousing that pressurise the environment, then share their findings with the whole group. • Teacher-led discussion: Consolidate group findings. • Whole group activity: Learners match negative environmental issues to their causes. • Lesson plenary: Summarise and check understanding using questions and answers. • Private study: Learners create a short presentation about environmental impact of chosen object. 	Unit specification Notes from Lesson 1 Guest speaker Assessment Workbook Task 1 Laminated negative environmental issues and their causes Recording method such as flip charts/smart board Computers with internet access

#	Topic	Lesson type	Suggested activities	Resources
3	<p>A2 Environmental impacts of warehouse activities and operations</p> <ul style="list-style-type: none"> Consequences of environmental impact 	AW	<ul style="list-style-type: none"> Lead in: Recap previous lesson. Individual activity: Learners present findings from private study Lesson 2 to the whole class and identify other environmental issues relating to objects. Teacher-led discussion: Learners share findings. Paired activity: Learner investigate global consequences of environmental issues, then share their findings with whole group. Lesson plenary: Summarise and check learning using questions and answers 	<p>Unit specification</p> <p>Notes from Lesson 2</p> <p>Recording method such as flip charts/smart board</p> <p>Learner presentations from private study Lesson 2</p> <p>Computers with internet access</p> <p>Assessment Workbook Task 1</p> <p>Assessment submission records</p>
4	<p>A2 Environmental impacts of warehouse activities and operations</p> <ul style="list-style-type: none"> Stakeholders involved with the environment 	AW	<ul style="list-style-type: none"> Lead in: Recap previous lesson. Small group activity: Discuss organisations involved with ensuring and promoting environmental sustainability. Teacher-led discussion: Learners present findings of their research. Teacher presentation: Present relevant state ministries. 	<p>Unit specification</p> <p>Notes from Lesson 3</p> <p>Recording method such as flip charts/smart board</p> <p>Computers with internet access</p>

#	Topic	Lesson type	Suggested activities	Resources
			<ul style="list-style-type: none"> • Plenary session: Summarise and check understanding using question and answers • Teacher-led discussion: Introduce state ministries learners will visit and their activities. Learners prepare questions to ask. • Private study: Learners research local environmental initiatives and continue 	<p>Assessment Workbook Task 1</p> <p>Presentation on relevant state ministries</p> <p>Visit documentation</p>
5	Visit	V/AW	<ul style="list-style-type: none"> • Visits: Learners visit as many state departments as possible. (teacher may have to split the group and visits) . • Learners ask questions prepared in Lesson 4. • Recap session: Check understanding using questions and answers and check what learners observed on the visits. • Private study: In three groups, learners create a presentation on key visit findings. 	<p>Unit specification</p> <p>Visit locations</p> <p>Visit documentation</p> <p>Prepared questions from Lesson 4</p>
6	Visit plenary Assessment Workbook Task 1 assignment completion and submission	AW	<ul style="list-style-type: none"> • Lead in: Recap previous lessons and visits. • Small group activity: Learners give presentations (private study Lesson 5) on what they learned from the visits. • Assessment activity: Learners complete and submit Assessment Workbook Task 1. 	<p>Unit specification</p> <p>Notes from Lessons 1–5</p> <p>Learner presentations from private study in Lesson 5</p>

#	Topic	Lesson type	Suggested activities	Resources
			<ul style="list-style-type: none"> • Lesson recap: Use questions and answers to check learners' understanding. • Private study: Learners research the UNDP's Strategic Plan (2018–2021). 	<p>Assessment Workbook Tasks 1</p> <p>Recording method such as flip charts/smart board</p> <p>Computers with internet access</p> <p>Assessment submission records</p>
7	A3 Considerations for warehousing		<ul style="list-style-type: none"> • Lead in: Recap previous lessons. • Teacher-led presentation: Introduce Assessment Workbook Task 2. • Small group activity: Learners present findings from private study Lesson 6. • Teacher presentation: Explain compliance with UNDP's Strategic Plan (2018 -2021). • Teacher presentation: What is modern consumerism? • Small group activity: Learners investigate negative impact of modern consumerism on the environment, including the supply chain, and share their findings with whole group. 	<p>Unit specification</p> <p>Notes from Lessons 1–6</p> <p>Assessment Workbook Task 2</p> <p>Learners' notes from private study Lesson 6</p> <p>Access to National Geographic (air pollution)</p> <p>Recording method such as flip charts/smart board</p>

#	Topic	Lesson type	Suggested activities	Resources
			<ul style="list-style-type: none"> • Teacher- led presentation: Explain the contribution of warehouse activities and operations to air pollution. • Lesson plenary: Summarise and check understanding using questions and answers. • Private study: In groups, learners investigate the location of warehouses around Tashkent. 	<p>Computers with internet access</p> <p>Presentation about UNDP's Strategic Plan</p> <p>Presentation about modern consumerism</p> <p>Presentation about air pollution</p>
8	<p>A3 Considerations for warehousing</p> <ul style="list-style-type: none"> • Impact on local communities 	AW	<ul style="list-style-type: none"> • Lead in: Recap previous lesson. • Paired activity: Learners use maps to investigate impact on Uzbekistan communities of infrastructure and warehouse locations. • Teacher-led discussion: Learners share findings. • Plenary: Summarise and check understanding using questions and answers. • Teacher-led discussion: Give group feedback on Assessment Workbook Task 1. • Teacher-learner one-to-ones: Give individual progress reviews. 	<p>Unit specification</p> <p>Notes from Lesson 7</p> <p>Assessment Workbook Task 2</p> <p>Maps of national road and rail networks</p> <p>Assessment records</p> <p>Progress review records</p> <p>Computers with access to the internet</p>

#	Topic	Lesson type	Suggested activities	Resources
			<ul style="list-style-type: none"> • Private study: In small groups, learners identify costs and benefits of changing warehouse operations. 	
9	<p>A3 Considerations for warehousing</p> <ul style="list-style-type: none"> • Costs and benefits of changes 	AW	<ul style="list-style-type: none"> • Lead in: Recap previous lesson. • Small group activity: Learners present private study findings. • Whole group activity: Learners take part in team game about costs and benefits of change versus perceived economic gains. • Teacher-led discussion: Discuss findings from the game with whole group. • Lesson plenary: Summarise and check understanding using questions and answers. • Assessment activity: Learners complete and submit Assessment Workbook Task 2. • Private study: In pairs, learners research legislation and policies. 	<p>Unit specification</p> <p>Notes from Unit 4</p> <p>Assessment Workbook Task 2</p> <p>Computers with access to the internet</p> <p>Recording method such as flip charts/smart board</p>

#	Topic	Lesson type	Suggested activities	Resources
10	B1 Measures to reduce environmental impacts		<ul style="list-style-type: none"> • Lead in: Recap previous lesson and Unit 4. • Teacher-led discussion: Introduce Assessment Workbook Task 3a and discuss sustainability measures. • Teacher-led presentation: Explain compliance with environmental legislation, policies and processes • Small group activity: Learners create and present a staff training session to make warehouse staff aware of sustainability measures available to warehouse businesses • Teacher-led discussion: learners share their findings with the whole class. • Lesson plenary: Summarise and check understanding using questions and answers. • Private study: In three groups, learners research Uzbekistan's environmental impact. 	<p>Unit specification</p> <p>Assessment Workbook Task 3a</p> <p>Recording method such as flip charts/smart board</p> <p>Notes from Unit 4</p> <p>Computers with access to the internet</p> <p>Presentation about legislation</p> <p>Non-environmental policies from warehouse organisations</p>

#	Topic	Lesson type	Suggested activities	Resources
11	B1 Measures to reduce environmental impacts	AW	<ul style="list-style-type: none"> • Lead in: Recap previous lesson. • Teacher presentation: Explain sustainable control measures. • Small group activity: Learners investigate sustainable control measures. • Teacher led discussion: Learners share findings. • Teacher-led discussion: Explain other environmental issues., e.g.: <ul style="list-style-type: none"> ○ land ○ materials ○ water quality ○ commercial exploitation • Lesson plenary: Summarise and check understanding using questions and answers. • Teacher-led discussion: Give group feedback on Assessment Workbook Task 2. • Teacher-learner one-to-ones: Give individual progress reviews. 	Unit specification Notes from Lesson 10 Assessment Workbook Task 3a Assessment records Progress review records Recording method such as flip charts/smart board Computers with access to the internet Presentation about sustainable measures Presentation on role of warehousing and sustainable measures

#	Topic	Lesson type	Suggested activities	Resources
12	B1 Measures to improve environmental sustainability Guest speakers	GS/AW	<ul style="list-style-type: none"> • Lead in: Recap previous lesson and introduce Assessment Workbook Task 3b. • Assessment activity: Learners complete and submit Assessment Workbook Task 3a. • Whole group activity: Learners prepare questions to ask guest speakers. • Guest speaker forum: Introduce representatives from the railways, Uzbek Airways and delivery organisations. Learners ask questions they prepared earlier. • Q & A session: Summarise and check understanding using Q & A. 	Unit specification Notes from Lesson 10 Guest speakers Appropriate-sized room Assessment Workbook Task 3 Computers with access to the internet
13	B2 Benefits of environmental sustainability B3 Benefits to warehousing of improving environmental sustainability Business operations and policies		<ul style="list-style-type: none"> • Lead in: Recap previous lesson and guest speakers. • Paired activity: Learners identify how to incorporate sustainability into business aims and objectives. • Teacher-led discussion: Learners share their findings. • Small group activity: Learners identify how to incorporate sustainability into operational processes. • Teacher-led discussion: Learners share their findings. 	Unit specification Notes from Lesson 12 Presentation about working with external stakeholders. Assessment Workbook Task 3

#	Topic	Lesson type	Suggested activities	Resources
			<ul style="list-style-type: none"> • Teacher presentation: Explain and discuss working with external stakeholders. • Plenary session: Summarise and check understanding using questions and answers. • Private study: In pairs or small groups, learners create a policy that includes sustainable practices. for one of the following: <ul style="list-style-type: none"> ○ training ○ external consultation ○ working with suppliers ○ working with environmental agencies. 	<p>Two-column activity sheets about making operational processes more sustainable</p> <p>Recording method such as flip charts/smart board</p> <p>Computers with access to the internet</p>

#	Topic	Lesson type	Suggested activities	Resources
14	B2 Benefits of environmental sustainability Assessing the impact	AW	<ul style="list-style-type: none"> • Lead in: Recap previous lesson. • Paired/small group activity: Learners present their policies from private study Lesson 13. • Teacher presentation: Introduce the benefits to the environment of sustainable control measures. • Paired activity: Learners complete template form about benefits of sustainable control measures. • Small group activity: Learners research ways to assess environmental impact using sustainable measures. • Lesson plenary: Summarise and check learning using questions and answers. 	Unit specification Notes from Lesson 13 Assessment Workbook Task 3b Presentation on assessing impact of sustainable control measures Learner policies from private study Lesson 13 Recording method such as flip charts/smart board Template form about benefits of sustainable measures Computers with access to the internet

#	Topic	Lesson type	Suggested activities	Resources
15	Justifying the business case	AW	<ul style="list-style-type: none"> • Lead in: Recap previous lesson • Learners to complete and submit Assessment Workbook Task 3. • Teacher-led presentation: introduce Assessment Workbook Task 4 • In pairs or small groups (based on private study from lesson 13): learners justify the business case of their policy and highlight specific benefits • Lesson plenary: Summarise and check understanding using questions and answers. • Teacher-led discussion: Task 4 alignment with Lessons 13 and 14 main activities and giving guidance 	Unit specification Notes from lesson 14 Assessment Workbook Task 4 Computer including access to the internet Presentation on Task 4 Computers with access to the internet
16	Assignment and progress reviews Investigation methods	AW	<ul style="list-style-type: none"> • Lead in: Recap previous lesson. • Assessment activity: Learners complete and submit Assessment Workbook Task 4. • Teacher-learner one-to-ones: Give individual progress reviews. • Teacher-led presentation: Introduce Assessment Workbook Task 5. 	Unit specification Notes from Lesson 15 Computers with access to the internet Assessment Workbook Tasks 4 and 5 Assessment records

#	Topic	Lesson type	Suggested activities	Resources
			<ul style="list-style-type: none"> • Teacher-led discussion: Discuss the difference between primary and secondary research. • Lesson recap: Summarise and check learning using questions and answers. • Private study: Learners create a questionnaire on warehousing environmental sustainability. 	<p>Progress review records</p> <p>Presentation about Assessment Workbook Task 5</p>
17	<p>Investigation methods</p> <p>Selected warehouse business project</p> <p>Research methods and presenting data</p>	AW	<ul style="list-style-type: none"> • Lead in: Recap Lessons 1, 2, 3 and 16. • Individual activity: Learners present questionnaires from private study Lesson 16. • Teacher-led discussion: Explain and discuss sources, research methods, referencing and presenting data. • Lesson plenary: Summarise and check learning using questions and answers. 	<p>Unit specification</p> <p>Notes from Lessons 1, 2, 3, 12 and 16</p> <p>Assessment Workbook Task 5</p> <p>Learners' questionnaires from private study Lesson 16</p> <p>Recording method such as flip charts/smart board</p> <p>Computers with access to the internet</p>

#	Topic	Lesson type	Suggested activities	Resources
18	C1 Planning for improved practice C2 Justifying recommendations to improve sustainable practice	AW	<ul style="list-style-type: none"> • Lead in: Recap previous lesson. • Teacher presentation: Explain how to start planning. • Individual activity: Learners produce plans based on their research and recommend improvements to make their chosen business's activities and operations more sustainable. • Teacher-led discussion: Learners share their plans. • Whole group activity: Learners investigate what needs to be considered to make recommendations. • Teacher-led presentation: Revisit the continuous improvement cycle. • Individual activity: Learners apply the continuous improvement cycle to one of their recommendations and share findings. • Teacher-led discussion: learners share their findings with the whole class • Lesson plenary: Summarise and check understanding using questions and answers. 	Unit specification Notes from Lesson 17 Assessment Workbook Task 5 Lesson numbers from: Units 2, 3 and 4 Presentation on how to start plans Presentation on continuous improvement cycle Recording method such as flip charts/smart board Computers with access to the internet

#	Topic	Lesson type	Suggested activities	Resources
19	C2 Justifying recommendations to improve sustainable practice	AW	<ul style="list-style-type: none"> • Lead in: Recap previous lesson. • Individual activity: Learners justify the recommendations in their plan from Lesson 18. • Teacher-led discussion: Learners present their recommendations and justifications for discussion. • Teacher-led discussion: Give group feedback on Assessment Workbook Task 4. • Teacher-learner one-to-ones: Give individual progress reviews, including individual feedback on Assessment Workbook Task 4. • Assessment activity: Learners complete and submit Assessment Workbook Task 5. 	Unit specification Notes from Lessons 1–18 Assessment Workbook Task 5 Assessment records Progress review records Computers with access to the internet

#	Topic	Lesson type	Suggested activities	Resources
20	Assignment feedback Progress review Resubmission	AW	<ul style="list-style-type: none"> • Teacher presentation: Present the unit plenary. • Teacher-learner one-to-ones: Give individual progress reviews, including individual feedback on Assessment Workbook Task 5. • Whole group activity: Learners complete unit feedback survey. 	Unit specification Notes from Lessons 1–19 Assessment Workbook Unit plenary presentation Progress review records Assessment records Computers with access to the internet Unit feedback surveys

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	1 (3 hours)

Lesson objectives	<p>To introduce learners to:</p> <ul style="list-style-type: none"> • Unit 6 • the assessment requirements of the unit • the role and environmental responsibilities of the warehouse supervisor • warehouse activities and operations that negatively affect the environment.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Assessment Workbook Task 1 • Word search activity sheet • Recording method such as flip charts/smart board • Presentation on environmental issues (PS) • Presentation on guest speaker in Lesson 2 (PS) • Computers with access to the internet
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes
Starter activity (60 minutes)	<ul style="list-style-type: none"> • Introduce lesson aims and objectives. • Introduce the unit and the main topics covered in this unit. • Explain the different assessment processes for the unit. • Explain knowledge tasks and expectations, focusing on Assessment Workbook Task 1.
Main activities (75 minutes)	<ul style="list-style-type: none"> • Small group activity: Learners complete a word search activity sheet that identifies key environmental phrases. • Individual activity: Learners investigate the role and responsibilities of the warehouse supervisor in terms of operations and activities affecting the environment. Learners investigate warehouse operations and specific activities that negatively affect the environment. • Teacher-led discussion: Discuss the key information that learners discovered and ensure that learners make notes. • Teacher-led presentation: Present environmental issues that are unique to Uzbekistan and then environmental issues that are global. Present different kinds of warehouse and their impact, including whether they are local or national, their size and location and the types of goods they handle. • Paired activity: Learners consider how the environmental impact of warehouses varies.
Supplementary activities (30 minutes)	<ul style="list-style-type: none"> • Teacher presentation: Present information about the guest speaker who will visit in Lesson 2 and the activities carried out by the organisation they work for. • Group activity: Learners prepare questions to ask the guest speaker in Lesson 2.
Concluding activity (15 minutes)	<ul style="list-style-type: none"> • Learners share their questions with the whole group. • Check learners' understanding using questions and answers.

Activities	Teaching notes
Private study	<ul style="list-style-type: none">● Learners revisit Units 1 and 3 (and Unit 4 if relevant). Learners make their own notes on different types of warehouse business in terms of:<ul style="list-style-type: none">○ environmental sustainability policies○ employees' attitude to environmental sustainability○ marketing of organisational environmental sustainability.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	2 (3 hours)

Lesson objectives	<p>To introduce learners to:</p> <ul style="list-style-type: none"> • the relationship between warehouse activities and operations and the environment • influences that pressurise the environment • the guest speaker and their experiences.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lesson 1 • Guest speaker • Assessment Workbook Task 1 • Laminated negative environmental issues and their causes • Recording method such as flip charts/smart board • Computers with access to the internet
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes
Starter activity (30 minutes)	<ul style="list-style-type: none"> ● Recap Lesson 1 using questions and answers.. ● Introduce aims and objectives of lesson. ● Introduce guest speaker.
Main activities (120 minutes, including 30 mins for the guest speaker)	<ul style="list-style-type: none"> ● Teacher-led discussion: Discuss differences in operations (based on previous lesson's private study) in relation to: <ul style="list-style-type: none"> ○ environmental sustainability policies ○ employees' attitude to environmental sustainability ○ marketing of organisational environmental sustainability. ● Guest speaker: Presentation about the relationship between warehouse activities and operations and the environment. Learners ask prepared questions and take notes. ● Small group activity: Learners identify impacts from warehousing that pressurise the environment, including: <ul style="list-style-type: none"> ○ processes ○ energy consumption ○ waste residues ○ single-use materials ○ technology and obsolescence. ● Teacher-led discussion: Consolidate group findings and link back to guest speaker. ● Group activity: Introduce a game about negative environmental issues and their causes. Learners match negative environmental issues to their causes.
Concluding activity (30 minutes)	<ul style="list-style-type: none"> ● Teacher-led discussion: Bring together all influences and negative issues and link to Assessment Workbook Task 1. ● Lesson plenary to check learners' understanding using questions and answers.

Activities	Teaching notes
Private study	<ul style="list-style-type: none">● Learners select one of the following objects:<ul style="list-style-type: none">○ plastic water bottle○ tin can○ milk carton○ plastic bag○ train/bus ticket○ tin foil○ polystyrene food container○ plastic container (e.g. medicine bottle)○ item made from nylon○ item made from cotton.● Learners create a short presentation about their chosen object that includes:<ul style="list-style-type: none">○ its composition (materials used to make the item)○ its disposal method○ its decomposition time.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	3 (3 hours)

Lesson objectives	<p>To introduce learners to:</p> <ul style="list-style-type: none"> • issues associated with the decomposition of different materials • the consequent environmental issues.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lesson 2 • Recording method such as flip charts/smart board • Computers with access to the internet • Learner presentations from private study Lesson 2 • Assessment Workbook Task 1 • Assessment submission records
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes
Starter activity (15 minutes)	<ul style="list-style-type: none"> • Introduce lesson aims and objectives. • Recap Lesson 2 using questions and answers.
Main activities (135 minutes)	<ul style="list-style-type: none"> • Individual activity: Learners present their findings from their private study project from Lesson 2. Learners then identify all other environmental issues relating to the items discussed. • Teacher-led discussion: Learners share findings about environmental issues. • Paired activity: Learners discuss the global consequences of the following environmental issues: <ul style="list-style-type: none"> ○ extreme weather and temperatures ○ damage to ecosystems ○ species extinction ○ food chain threats ○ water shortages ○ disease in human and animal populations such as birth defects, cancers, respiratory diseases. • Whole group activity: Learners present further consequences to the whole group.
Concluding activity (30 minutes)	<ul style="list-style-type: none"> • Q & A session: Check understanding using Q & A. • Provide private study guidance on Assessment Workbook Task 1.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	4 (3 hours)
Lesson objectives	<ul style="list-style-type: none"> • To introduce learners to stakeholders involved with environmental sustainability. • To prepare learners for visits to stakeholders.
Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lesson 3 • Recording method such as flip charts/smart board • Computers including access to the internet • Assessment Workbook Task 1 • Presentation on relevant state ministries (PS) • Visit documentation
Key: AS : Activity Sheet; TF : Template Form; PS : Presentation Slide	

Activities	Teaching notes
Starter activity (30 minutes)	<ul style="list-style-type: none"> ● Recap Lesson 3 using questions and answers. ● Introduce lesson aims and objectives.
Main activities (90 minutes)	<ul style="list-style-type: none"> ● Small group activity: Split the group into five groups. Each group researches roles and responsibilities of one of the following: <ul style="list-style-type: none"> ○ United Nations Environment Programme (UNEP) ○ Uzbekistan State Committee for Environmental Protection ○ Friends of the Earth ○ Greenpeace ○ Environmental focus of Global Sustainable Development Goals (SDGs). ● Teacher-led discussion: Learners present findings of their research. ● Teacher-led presentation: Give a presentation about the: <ul style="list-style-type: none"> ○ Ministry of Energy of the Republic of Uzbekistan ○ State Committee for Ecology ○ Ministry of Water Resources of the Republic of Uzbekistan ○ State Committee of the Republic of Uzbekistan on Ecology and Environmental Protection.
Concluding activity (60 minutes)	<ul style="list-style-type: none"> ● Lesson plenary to check understanding using questions and answers. ● Teacher-led discussion: Prepare learners for visit, including completing documentation and questions for the ministries.
Private study	<ul style="list-style-type: none"> ● Learners research site clean-up initiatives in Tashkent and other major cities and their consistency with international standards.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	5 (3 hours)

Lesson objectives	<ul style="list-style-type: none"> To introduce learners to the roles and responsibilities of state ministries in relation to environmental sustainability.
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Resources checklist	<ul style="list-style-type: none"> Unit specification Visit locations (may need to split group and visits) Visit documentation Prepared questions from Lesson 4
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes
Starter activity (15 minutes)	<ul style="list-style-type: none"> • Introduce lesson aims and objectives. • Discuss questions with learners to ask on the visits and agree on a list of questions.
Main activities (150 minutes)	<ul style="list-style-type: none"> • Visit: Learners visit as many state departments as possible (splitting the group and visits as necessary), such as: <ul style="list-style-type: none"> ○ Ministry of Energy of the Republic of Uzbekistan ○ State Committee for Ecology ○ Ministry of Water Resources of the Republic of Uzbekistan ○ The State Committee for Ecology and Environment Protection of the Republic of Uzbekistan. • Question and Answer. session: Learners ask questions of each ministry's representatives.
Concluding activity (15 minutes)	<ul style="list-style-type: none"> • Lesson plenary to check understanding using questions and answers and check what learners observed on the visits. Ensure that learners have adequate and relevant information to work on Assessment Workbook Task 1.
Private study	<ul style="list-style-type: none"> • In three groups, learners create a presentation on key visit findings (with each group presenting about a different ministry).

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	6 (3 hours)

Lesson objectives	<ul style="list-style-type: none"> To allow learners to present visit findings. To complete and submit Assessment Workbook Task 1.
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Resources checklist	<ul style="list-style-type: none"> Unit specification Notes from Lessons 1–5 Learner presentations from private study in Lesson 5 Assessment Workbook Task 1 Recording method such as flip charts/smart board Computers with access to the internet Assessment submission records
Key: AS : Activity Sheet; TF : Template Form; PS : Presentation Slide	

Activities	Teaching notes
Starter activity (30 minutes)	<ul style="list-style-type: none"> Recap Lessons 1–5 and visits. Introduce lesson aims and objectives.
Main activities (130 minutes)	<ul style="list-style-type: none"> Small group activity: In three groups, learners present their visit plenary presentations prepared in private study Lesson 5. Assessment activity: Learners complete and submit Assessment Workbook Task 1.
Concluding activity (20 minutes)	<ul style="list-style-type: none"> Lesson recap: Use questions and answers to check learners' understanding.
Private study	<ul style="list-style-type: none"> Learners research the UNDP's Strategic Plan (2018–2021), the Uzbekistan national programme to protect the environment.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	7 (3 hours)

Lesson objectives	<p>To introduce learners to:</p> <ul style="list-style-type: none"> • compliance with local initiatives • Assessment Workbook Task 2 • the environmental impact of modern consumerism with a focus on the supply chain and warehousing • the impact of warehouse activities and operations on air pollution.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lessons 1–6 • Learners' notes from private study about the UNDP's Strategic Plan (2018–2021) • Access to National Geographic (air pollution): www.nationalgeographic.com/environment/global-warming/pollution • Assessment Workbook Task 2 • Presentation about UNDP's Strategic Plan (PS) • Presentation about modern consumerism (PS) • Presentation about air pollution (PS) • Recording method such as flip charts/smart board • Computers with access to the internet
<p>Key: AS: Activity Sheet; TF: Template Form; PS: Presentation Slide</p>	

Activities	Teaching notes
Starter activity (15 minutes)	<ul style="list-style-type: none"> ● Recap Lessons 1–6 using questions and answers. ● Introduce lesson aims and objectives and Assessment Workbook Task 2.
Main activities (150 minutes)	<ul style="list-style-type: none"> ● Small group activity: Learners present findings of private study research about the UNDP's Strategic Plan (2018–2021). ● Teacher presentation: Explain compliance with UNDP's Strategic Plan (2018–2021), Uzbekistan's national programme to protect the environment, including site clean-up initiatives in Tashkent and other major cities and consistency with international standards. ● Teacher-led presentation: What is modern consumerism? ● Small group activity: Split the group into four small groups. Learners consider how modern consumerism affects the supply chain (two groups) and warehouse operations and processes (two groups). ● Teacher-led discussion: Small groups present their findings to the whole group. ● Teacher presentation: Explain air pollution (using footage from the National Geographic website), including: <ul style="list-style-type: none"> ○ causes of air pollution ○ how air pollution measured ○ health hazards of air pollution ○ other impacts of air pollution. ● Paired activity: Learners identify specific air-polluting warehouse activities and operations. ● Teacher-led discussion: Discuss existing and alternative future ways to reduce air pollution.
Concluding activity (15 minutes)	<ul style="list-style-type: none"> ● Lesson plenary to check understanding using questions and answers.

Activities	Teaching notes
Private study	<ul style="list-style-type: none">● Split the group into four groups. In their groups, learners investigate the location of warehouses around Tashkent in relation to:<ul style="list-style-type: none">○ retailers○ medical centres○ LPG fuelling centres○ road networks in conjunction with railway freight depots and grazing/horticultural land.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	8 (3 hours)
Lesson objectives	<ul style="list-style-type: none"> • To introduce learners to environmental issues that impact on Uzbekistan communities. • To give learners assessment feedback on Assessment Workbook Task 1.
Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lesson 7 (including private study) • Maps of main road, rail and airports • Assessment Workbook Task 2 • Assessment records • Progress review records • Computers with access to the internet
Key: AS : Activity Sheet; TF : Template Form; PS : Presentation Slide	

Activities	Teaching notes
Starter activity (20 minutes)	<ul style="list-style-type: none"> ● Recap previous lesson using Q & A. ● Introduce lesson aims and objectives. ● Teacher-led discussion: Help learners to select three warehouse businesses that may have environmental issues.
Main activities (70 minutes)	<ul style="list-style-type: none"> ● Paired activity: Learners identify environmental issues that impact on Uzbekistan communities relating to warehouse business activities and operations, such as: <ul style="list-style-type: none"> ○ restrictions on larger vehicles within Tashkent city centre ○ noise pollution ○ restricted grazing for animals used to support communities ○ use of pipelines – distribution of gas (IPG). ● Teacher-led discussion: Learners share their findings from the small group activity with the whole class.
Concluding activity (90 minutes)	<ul style="list-style-type: none"> ● Lesson plenary to check understanding using questions and answers. ● Teacher-led discussion: Give group feedback on Assessment Workbook Task 1. ● Teacher-learner one-to-ones: Give assessment feedback on Assessment Workbook Task 1. ● Small group activity: Each group selects three different types of warehouse business and starts background research on size, type and location.
Private study	<ul style="list-style-type: none"> ● In groups, learners identify costs and benefits of changing warehouse operations, including: <ul style="list-style-type: none"> ○ research ○ training and other implementation processes ○ marketing opportunities.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	9 (3 hours)
Lesson objectives	<ul style="list-style-type: none"> • To introduce learners to costs and benefits of change and perceived economic gains. • To ensure learners understand Assessment Workbook Task 2.
Resources checklist	<ul style="list-style-type: none"> • Unit specification • Assessment Workbook Task 2 • Recording method such as flip charts/smart board • Computers with access to the internet
Key: AS : Activity Sheet; TF : Template Form; PS : Presentation Slide	

Activities	Teaching notes
Starter activity (15 minutes)	<ul style="list-style-type: none"> Recap previous Lesson numbers using questions and answers. Introduce lesson aims and objectives.
Main activities (60 minutes)	<ul style="list-style-type: none"> Small group activity: Learners present private study findings in relation to costs and benefits of changing warehouse operations. Whole group activity: Learners partake in the following team game. <div data-bbox="539 712 1359 1458" style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <ul style="list-style-type: none"> Place randomly selected learners into the following three teams: <ul style="list-style-type: none"> Team 1 represents operational costs Team 2 represent benefits Team 3 represent economic gains. Team 1 states an operational cost to a warehouse business and moves forward one step. Team 2 'sells' a benefit and moves forward two steps. Team 3 justifies an economic gain and moves forward three steps (more difficult concept). Repeat the process with two more costs and record learners' responses. The aim of the game is to recognise how direct and indirect economic gains and benefits offset costs. </div> Teacher-led discussion: Discuss the key issues raised by the game.
Concluding activity (105 minutes)	<ul style="list-style-type: none"> Lesson plenary to check understanding using questions and answers. Teacher-led discussion: Align the lesson with Assessment Workbook Task 2. Assessment activity: Learners complete Assessment Workbook Task 2.
Private study	<ul style="list-style-type: none"> In pairs, learners use notes from Lesson 1 (guest speaker) and Lesson 5 (visit) to research legislation and policies.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	10 (3 hours)

Lesson objectives	<p>To introduce learners to:</p> <ul style="list-style-type: none"> • relevant environmental legislation • relevant organisational policies.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Presentation about legislation • Assessment Workbook Task 3a • Recording method such as flip charts/smart board • Notes from Unit 4 • Non-environmental policies from warehouse organisations • Computers with access to the internet
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes
Starter activity (20 minutes)	<ul style="list-style-type: none"> ● Recap previous Lesson numbers using Q & A. ● Introduce lesson aims and objectives. ● Refer to Unit 4 notes on policies using questions and answers to check understanding.
Main activities (145 minutes)	<ul style="list-style-type: none"> ● Teacher-led discussion: Introduce Assessment Workbook Task 3a and discuss sustainable measures available to warehouse businesses. ● Teacher presentation: Explain compliance with environmental legislation. ● Small group activity: Learners align legislation with warehouse activities and operations and feed back. ● Teacher-led discussion: Discuss current online/hard copy policies applied by a range of warehouse businesses. ● Small group activity: Learners create and present a staff induction session that indicates to new employees how environmentally friendly a warehouse business is and the need for staff to follow sustainable practice. ● Teacher-led discussion: Consolidate all group findings.
Concluding activity (15 minutes)	<ul style="list-style-type: none"> ● Lesson plenary to check understanding using questions and answers.
Private study	<ul style="list-style-type: none"> ● In three groups, learners research Uzbekistan's environmental impact on: <ul style="list-style-type: none"> ○ the air ○ the land ○ the water.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	11 (3 hours)

Lesson objectives	<ul style="list-style-type: none"> • To introduce learners to sustainable measures used to reduce environmental impacts. • To introduce learners to further measures that impact land and water and link them to warehousing. • To give learners feedback on Assessment Workbook Task 2.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lesson 10 • Presentation about sustainable measures (PS) • Presentation on role of warehousing and sustainable measures (PS) • Assessment Workbook Task 3a • Assessment records • Progress review records • Recording method such as flip charts/smart board • Computers with access to the internet
Key: AS : Activity Sheet; TF : Template Form; PS : Presentation Slide	

Activities	Teaching notes
Starter activity (15 minutes)	<ul style="list-style-type: none"> ● Recap previous lesson using questions and answers. ● Introduce lesson aims and objectives.
Main activities (120 minutes)	<ul style="list-style-type: none"> ● Teacher presentation: Explain sustainable control measures available to warehouse businesses. ● Small group activity: In three groups, learners use research from private study and identify ways to control pollutants and reduce negative impacts. ● Teacher-led discussion: Learners share findings from private study and small group activity with the whole group. ● Teacher-led discussion: Discuss other issues, such as: <ul style="list-style-type: none"> ○ land quality (minimising landfill waste) ○ damaging materials, e.g. (asbestos, infectious clinical waste and their management) ○ water quality (e.g. polluting of rivers, lakes and Aral Sea) ○ regulating commercial exploitation of the Aral Sea. ● Paired activity: Learners relate one of the discussed issues listed above to warehousing. Learners share findings with the whole group.
Concluding activity (45 minutes)	<ul style="list-style-type: none"> ● Lesson plenary and check understanding using questions and answers. ● Teacher-led discussion: Give group feedback on Assessment Workbook Task 2. ● Teacher-learner one-to-ones: Give individual feedback on Assessment Workbook Task 2
Private study	<ul style="list-style-type: none"> ● Learners select warehouses.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	12 (3 hours)

Lesson objectives	<ul style="list-style-type: none"> • To introduce learners to the concept of the guest speaker forum. • To introduce learners to current environmental sustainability practices and warehousing activities and operations. • To complete and submit Assessment Workbook Task 3a. • To introduce learners to Assessment Workbook Task 3b.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lesson 10 • Guest speakers • Assessment Workbook Tasks 3a and 3b • Computers with access to the internet • Appropriate-sized room
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes
Starter activity (30 minutes)	<ul style="list-style-type: none"> ● Recap previous lesson, including questions and answers. ● Introduce lesson aims and objectives. ● Introduce Assessment Workbook Task 3b.
Main activities (135 minutes, including 90 minutes for guest speaker forum)	<ul style="list-style-type: none"> ● Assessment activity: Learners complete and submit Assessment Workbook Task 3a. ● Whole group activity: Learners create questions for the guest speakers. ● Guest speaker forum: Introduce guest speakers from: <ul style="list-style-type: none"> ○ railways ○ distribution organisations (e.g. Fargo, ARC) ○ Uzbekistan Airways. ● Guest speakers discuss measures that their organisations have taken to improve environmental sustainability. Learners take notes.
Concluding activity (15 minutes)	<ul style="list-style-type: none"> ● Lesson plenary and check understanding using questions and answers.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	13 (3 hours)

Lesson objectives	<ul style="list-style-type: none"> • To introduce learners to methods of incorporating sustainability into warehouse business aims and objectives. • To introduce learners to methods of incorporating sustainability into operational processes. • To familiarise learners with sustainable practices and policies.
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Resources checklist	<ul style="list-style-type: none"> • Notes from the guest speaker forum in Lesson 12 • Presentation about working with external stakeholders (PS) • Assessment Workbook Task 3 • Two-column activity sheets about making operational processes more sustainable • Recording method such as flip charts/smart board • Computers with access to the internet
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes								
Starter activity (30 minutes)	<ul style="list-style-type: none"> Recap Lesson 12, including learners' notes from the guest speaker forum, using Q & A. Introduce lesson aims and objectives. 								
Main activities (135 minutes)	<ul style="list-style-type: none"> Paired activity: Learners take part in 'Backpacking sustainability' by identifying and justifying which warehouse business aims and objectives can carry sustainability on their backs. Teacher-led discussion: Learners share findings from the paired activity. Group activity: Learners select three different warehouse operational processes and identify how to incorporate sustainability into these processes by completing a table such as the following example. <table border="1" data-bbox="587 931 1289 1234"> <thead> <tr> <th data-bbox="587 931 815 1037">Operational processes</th> <th data-bbox="815 931 1289 1037">How to make the operational more sustainable</th> </tr> </thead> <tbody> <tr> <td data-bbox="587 1037 815 1104">1</td> <td data-bbox="815 1037 1289 1104"></td> </tr> <tr> <td data-bbox="587 1104 815 1171">2</td> <td data-bbox="815 1104 1289 1171"></td> </tr> <tr> <td data-bbox="587 1171 815 1234">3</td> <td data-bbox="815 1171 1289 1234"></td> </tr> </tbody> </table> Teacher-led discussion: Learners share findings from the paired activities. Teacher-led presentation: Explain and discuss working with suppliers, other agents and any other external stakeholders. 	Operational processes	How to make the operational more sustainable	1		2		3	
Operational processes	How to make the operational more sustainable								
1									
2									
3									
Concluding activity (15 minutes)	<ul style="list-style-type: none"> Lesson plenary and check understanding using questions and answers. 								
Private study	<ul style="list-style-type: none"> In pairs or small groups, learners create a policy that encourages sustainable practice when working with one of the following: <ul style="list-style-type: none"> external consultants suppliers agencies any other external stakeholders. 								

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	14 (3 hours)

Lesson objectives	<ul style="list-style-type: none"> • To introduce learners to the benefits of sustainable control measures for the environment. • To introduce learners to different methods of encouraging sustainability in warehousing. • To enable learners to assess the impact of sustainable control measures.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lesson 13 • Presentation on the ways to assess the impact of sustainable control measures (PS) • Assessment Workbook Task 3b • Learner policies on sustainable practices from private study Lesson 13 • Recording method such as flip charts/smart board • Template form about benefits of sustainable measures (TF) • Computers with access to the internet
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes																																								
Starter activity (30 minutes)	<ul style="list-style-type: none"> Recap previous lesson using questions and answers. Introduce lesson aims and objectives. 																																								
Main activities (130 minutes)	<ul style="list-style-type: none"> Paired/small group activity: Learners present their policy from private study Lesson 13 to the rest of the group. Teacher-led discussion: Discuss learner presentations. Teacher-led presentation: Explain the benefits to the environment of sustainable control measures. Paired activity: Learners complete template form like the following example. <table border="1" data-bbox="555 853 1345 1525" style="margin: 10px 0;"> <thead> <tr> <th></th> <th colspan="4">Benefits to...</th> </tr> <tr> <th>Sustainable control measures</th> <th>...external consultants</th> <th>...suppliers</th> <th>...agencies</th> <th>...other external stakeholders</th> </tr> </thead> <tbody> <tr> <td>Legislation</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Policies</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Initiatives</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Emission control</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Incineration control</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Disposal control</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Small group activity: Learners get back into the same four groups as in previous lesson's private study. Referring to their policy, learners research ways to assess: <ul style="list-style-type: none"> different carbon footprints of equipment different carbon footprints of products consumer commitment to sustainability supplier commitment to sustainability. Teacher-led discussion: Learners present findings of previous activity. Discuss to consolidate learners' findings. 		Benefits to...				Sustainable control measures	...external consultants	...suppliers	...agencies	...other external stakeholders	Legislation					Policies					Initiatives					Emission control					Incineration control					Disposal control				
	Benefits to...																																								
Sustainable control measures	...external consultants	...suppliers	...agencies	...other external stakeholders																																					
Legislation																																									
Policies																																									
Initiatives																																									
Emission control																																									
Incineration control																																									
Disposal control																																									

Activities	Teaching notes
Concluding activity (20 minutes)	<ul style="list-style-type: none">• Lesson plenary and check understanding using questions and answers.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	15 (3 hours)

Lesson objectives	<ul style="list-style-type: none"> • To introduce learners to Assessment Workbook Task 4. • To introduce learners to justifying the business case of each policy. • To make sure learners complete and submit Assessment Workbook Task 3.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lesson 14 • Assessment Workbook Task 4 • Learner policies from Lessons 13-14 • Computers with access to the internet • Recording method such as flip charts/smart board • Assessment submission records
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes
Starter activity (15 minutes)	<ul style="list-style-type: none"> • Recap Lesson 14 using questions and answers. • Introduce lesson aims and objectives.
Main activities (90 minutes)	<ul style="list-style-type: none"> • Teacher presentation: Introduce Assessment Workbook Task 4. • Small group activity: Learners continue the previous small group activity in the lesson 14 and justify the business case of each policy and present specific benefits (such as environmental, financial, legal and regulatory, commercial and employee benefits).
Concluding activity (75 minutes)	<ul style="list-style-type: none"> • Lesson plenary and check understanding using questions and answers. • Teacher-led discussion: Align main activity with Lessons 13 and 14 and with Task 4. Give guidance as needed.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	16 (3 hours)

Lesson objectives	<ul style="list-style-type: none"> • To ensure that learners complete and submit Assessment Workbook Task 4. • To give learners group and individual feedback on Assessment Workbook Task 3. • To review learner progress. • To introduce learners to Assessment Workbook Task 5. • To introduce learners to the difference between primary and secondary research.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lesson 15 • Presentation about Assessment Workbook Task 5 (PS) • Assessment Workbook Tasks 4 and 5 • Assessment records • Progress review records • Computers with access to the research
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes
Starter activity (15 minutes)	<ul style="list-style-type: none"> Recap Lesson 15 using questions and answers. Introduce lesson aims and objectives.
Main activities (150 minutes)	<ul style="list-style-type: none"> Assessment activity: Learners use all notes from Lessons 14 and 15 to complete Assessment Workbook Task 4. Teacher-learner one-to-ones: Give individual progress reviews, including individual feedback on Assessment Workbook Tasks 3a and 3b. Teacher presentation: Introduce learners to Assessment Workbook Task 5. Teacher-led discussion: Discuss the difference between primary and secondary research.
Concluding activity (15 minutes)	<ul style="list-style-type: none"> Lesson plenary and check understanding using questions and answers.
Private study	<ul style="list-style-type: none"> Learners create a questionnaire focusing on the environmental sustainability of current warehouse activities and operations.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	17 (3 hours)

Lesson objectives	<ul style="list-style-type: none"> • To recap Lessons 1, 2, 3 and 16. • To introduce learners to the value of primary and secondary research. • To introduce learners to presenting data collected using primary and secondary research.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lessons 1, 2, 3, 12 and 16 • Assessment Workbook Task 5 • Learners' questionnaires from private study Lesson 16 • Recording method such as flip charts/smart board • Computers with access to the internet
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes
Starter activity (60 minutes)	<ul style="list-style-type: none"> Recap Lessons 1, 2, 3 and 16 using questions and answers. Introduce lesson aims and objectives.
Main activities (105 minutes)	<ul style="list-style-type: none"> Individual activity: Learners present questionnaires from private study in previous lesson, which focus on the environmental sustainability of current warehouse activities and operations. Teacher-led discussion: Explain the use of other primary sources, secondary research methods and correct referencing. Explain how to present data in textual and graphical formats. Individual activity: Learners select a warehouse business to research in order to complete Assessment Workbook Task 5a.
Concluding activity (15 minutes)	<ul style="list-style-type: none"> Lesson plenary and check understanding using questions and answers.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	18 (3 hours)

Lesson objectives	<ul style="list-style-type: none"> • To introduce learners to improvements to sustainable practices. • To introduce learners to identifying recommendations for improvements to sustainable practices. • To introduce learners to feasible recommendations to improvements to sustainable practice. • To revisit the continuous improvement cycle.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lesson 17 • Assessment Workbook Task 5 • Lesson numbers from Units 2, 3 and 4 • Presentation on how to start plans (PS) • Presentation on continuous improvement cycle (PS) • Recording method such as flip charts/smart board • Computers with access to the internet
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes												
Starter activity (15 minutes)	<ul style="list-style-type: none"> Recap Lesson 17 using questions and answers. Introduce lesson aims and objectives. 												
Main activities (135 minutes)	<ul style="list-style-type: none"> Teacher - led presentation: How to start plans as part of Assessment Workbook Task 5a. Individual activity: Learners produce plans based on their research from previous lesson, recommending improvements that could be made to for six activities or operations in order to make their chosen business's activities and operations more sustainable. Learners identify and justify suggested improvements. Teacher-led discussion: Learners share their proposals. Check for plagiarism. Whole group activity: Learners complete a shopping list of recommendations like the following example. <table border="1" data-bbox="536 994 1361 1256" style="margin-left: 20px;"> <tr> <td style="width: 25%;">Warehouse operation or activity</td> <td style="width: 75%;">Shopping list</td> </tr> <tr> <td>1.</td> <td></td> </tr> <tr> <td>2.</td> <td></td> </tr> </table> Whole group activity: Learners edit their shopping list to show commercial awareness of the feasibility of recommendations, using a table like the following example. <table border="1" data-bbox="536 1442 1361 1659" style="margin-left: 20px;"> <tr> <td style="width: 50%;">Ideal shopping list</td> <td style="width: 50%;">Actual shopping list</td> </tr> <tr> <td>1.</td> <td></td> </tr> <tr> <td>2.</td> <td></td> </tr> </table> 	Warehouse operation or activity	Shopping list	1.		2.		Ideal shopping list	Actual shopping list	1.		2.	
Warehouse operation or activity	Shopping list												
1.													
2.													
Ideal shopping list	Actual shopping list												
1.													
2.													

Activities	Teaching notes										
	<ul style="list-style-type: none"> Teacher presentation: Revisit the continuous improvement cycle. Individual activity: Learners apply the continuous improvement cycle to one of their recommendations, using a table like the example below. <table border="1" data-bbox="549 517 1345 1043"> <tbody> <tr> <td data-bbox="549 517 906 622">1. Review operation or activity</td> <td data-bbox="906 517 1345 622"></td> </tr> <tr> <td data-bbox="549 622 906 728">2. Plan new improvement</td> <td data-bbox="906 622 1345 728"></td> </tr> <tr> <td data-bbox="549 728 906 833">3. Implement new improvement</td> <td data-bbox="906 728 1345 833"></td> </tr> <tr> <td data-bbox="549 833 906 938">4. Monitor new improvement</td> <td data-bbox="906 833 1345 938"></td> </tr> <tr> <td data-bbox="549 938 906 1043">5. Review new improvement</td> <td data-bbox="906 938 1345 1043"></td> </tr> </tbody> </table> Teacher-led discussion: Link previous activities to Assessment Workbook Task 5. 	1. Review operation or activity		2. Plan new improvement		3. Implement new improvement		4. Monitor new improvement		5. Review new improvement	
1. Review operation or activity											
2. Plan new improvement											
3. Implement new improvement											
4. Monitor new improvement											
5. Review new improvement											
Concluding activity (30 minutes)	<ul style="list-style-type: none"> Teacher presentation: how learning aligns with Tasks 5a and 5b Lesson plenary and check understanding using questions and answers 										

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	19 (3 hours)

Lesson objectives	<ul style="list-style-type: none"> • To introduce learners to justifying changes to warehouse activities and operations to improve sustainable practice. • To give learners assessment feedback for Assessment Workbook Task 4. • To ensure learners complete and submit Assessment Workbook Task 5.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lessons 1–18 • Assessment Workbook Task 5 • Assessment records • Progress review records • Computers with access to the internet
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes
Starter activity (15 minutes)	<ul style="list-style-type: none"> ● Recap Lesson 18 using questions and answers. ● Introduce lesson aims and objectives.
Main activities (75 minutes)	<ul style="list-style-type: none"> ● Individual activity: Learners write a detailed description of one warehouse operation/activity from their research and plan in Lesson 18, including: <ul style="list-style-type: none"> ○ what the operation/activity does ○ how it relates to other operations ○ how it ensures efficiency ○ how it supports the business. ● Individual learner activity: Learners write a justification of recommendations to improve the environmental sustainability of that warehouse operation/activity: <ul style="list-style-type: none"> ○ what the operation/activity did and now does ○ how it how it now relates to other operations ○ how it now ensures efficiency ○ how it now supports the business and will continue to do so. ● Teacher-led discussion: Learners present their recommendations and justifications from previous activities. Discuss the differences between 'then' (before the recommendations) and 'now' (after the recommendations).
Concluding activity (90 minutes)	<ul style="list-style-type: none"> ● Teacher-led discussion: Give group feedback on Assessment Workbook Task 4. ● Teacher-learner one-to-ones: Provide individual feedback on Assessment Workbook Task 4 and give progress review. ● Assessment activity: Learners use Lessons 17, 18 and 19 to complete and submit Assessment Workbook Task 5.

Lesson plan

Qualification	Pearson BTEC Uzbekistan Level 4 Qualifications in Warehouse Supervision
Unit	Unit 6: The Impact of Warehousing on the Environment
Lesson number	20 (3 hours)

Lesson objectives	<ul style="list-style-type: none"> • To give learners feedback on Assessment Workbook Task 5. • To present a unit plenary. • To give learners an opportunity to resubmit. • To finalise learners' assessment grades. • To allow learners to feed back on the unit.
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Resources checklist	<ul style="list-style-type: none"> • Unit specification • Notes from Lesson 1–19 • Assessment Workbook • Unit plenary presentation • Progress review records • Assessment records • Computers with access to the internet • Unit feedback surveys
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Key: **AS**: Activity Sheet; **TF**: Template Form; **PS**: Presentation Slide

Activities	Teaching notes
Starter activity (15 minutes)	<ul style="list-style-type: none"> ● Recap Lesson 19 using questions and answers. ● Introduce lesson aims and objectives.
Main activities (165 minutes)	<ul style="list-style-type: none"> ● Teacher presentation: Present the unit plenary. ● Teacher-learner one-to-ones: Give learners feedback on Assessment Workbook Task 5. ● Assessment activity: Where necessary, give learners the opportunity to resubmit. Finalise learner assessment grades. ● Whole group activity: Distribute unit feedback survey for learners to complete.

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