

Please check the examination details below before entering your candidate information

Candidate surname					Other names					
Pearson BTEC Level 3 Nationals Foundation Diploma, Diploma, Extended Diploma	Centre Number					Learner Registration Number				
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Supervised Window: Thursday 14 January 2021										
Supervised hours: 2 hours 30 minutes					Paper Reference 20109K					
Equine Management Unit 2: Equine Diet and Nutrition Set Task										
You must have: Calculator.										Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and learner registration number.
- Answer **all** activities.
- Answer the activities in the spaces provided
– *there may be more space than you need.*
- This booklet contains material for the completion of the set task under supervised conditions.
- This booklet is specific to each series and the material must be issued only to learners who have been entered to undertake the set task in the specified series.
- This booklet should be kept securely until the start of the single 2-hour 30-minute supervised assessment session.

Information

- The total mark for this paper is 60.
- The marks for **each** activity are shown in brackets
– *use this as a guide as to how much time to spend on each activity.*
- Materials allowed in the supervised assessment:
– Calculator.

Advice

- Read each activity carefully before you start to answer it.
- Try to answer every activity.
- Check your answers if you have time at the end.

Turn over ►

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Instructions for Teachers/Tutors and/or Invigilators

All learner work must be completed independently and authenticated before being submitted to Pearson by the teacher/tutor.

Learners must complete the set task using this task booklet.

Teachers/tutors must note that:

- learners must not be given any direct guidance or prepared materials
- all work must be completed independently by the learner
- learners must not bring anything into the supervised environment or take anything out without teacher/tutor approval.

Centres are responsible for putting in place appropriate checks to ensure that only permitted material is introduced into the supervised environment.

Maintaining security

- During the supervised assessment session, the assessment areas must be accessible only to the individual learners and to named members of staff.
- Learners can access their work only under supervision.
- Any work learners produce under supervision must be kept securely.
- Learners are not permitted to have access to the internet or other resources during the supervised assessment session.

After the session, the teacher/tutor will confirm that all learner work has been completed independently as part of the authentication submitted to Pearson.

The set task is a formal external assessment and must be conducted with reference to the instructions in this task booklet and the *BTEC Nationals Instructions for Conducting External Assessments (ICEA)* document to ensure that the supervised assessment is conducted correctly so that learners have completed their preparation validly and independently.

Outcomes for submission

- This task and answer booklet must be submitted to Pearson.
- Each learner must complete an authentication sheet.

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Instructions for Learners

Read the set task information carefully.

- You must plan your time on each part of the task. You have a total of 2 hours and 30 minutes in this session to complete the task.
- You will complete this set task under supervision and your work will be kept securely during any breaks taken.
- You must work independently throughout the supervised assessment period and must not share your work with other learners.

Outcomes for submission

- You should complete the set task in this task and answer booklet.
- You must complete an authentication sheet.

Set Task Information

You work for a large competition and livery yard called Holders Equestrian Centre. You review the diets of all the horses regularly, with their owners, to make sure that their nutritional needs are met.

Set Task

You must complete ALL activities in the set task.

Activity	Suggested time spent on activity	Total marks
Activity 1 – Feed management	20 minutes	8
Activity 2 – Diet evaluation	50 minutes	20
Activity 3 – Diet modification	30 minutes	12
Activity 4 – Diet-related disorders	50 minutes	20

TOTAL FOR PAPER = 60 MARKS



Activity 1

In your role at Holders Equestrian Centre you are responsible for feed stock levels, feed storage, preparation and presentation of feeds.

The horses on the yard are fed a variety of feeds including conditioning mix and competition mix. The yard manager has decided it will be more cost effective to change from using these mixes to straight feeds.

The following feedstuffs have been bought: rolled oats, micronised barley, flaked maize, dried sugar beet pellets and soya oil. You have been asked to manage the change of feed for the horses and arrange future orders.

How should the new feedstuffs be managed effectively to meet the demands of the horses at the centre?

In your answer you should consider:

- feed information to meet the horses' needs
- feed storage
- feed preparation and presentation
- feed stock control.

You should spend approximately 20 minutes on this activity.

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(Total for Activity 1 = 8 marks)



Activity 2

One of your tasks at Holders Equestrian Centre is to review the diets of the horses in your care.

Oakley is a 15 hh retired polo pony. He is now used for light hacking and the occasional organised ride. Oakley is kept in a stable at night and goes out every day for at least three hours in a field with good grass. Oakley weights 550 kg and is overweight.

Evaluate the suitability of Oakley's current diet using the information provided in the feed and nutrient data table below.

In your answer you should:

- consider Oakley's size and weight
- consider Oakley's feeding regime including timing and presentation
- analyse Oakley's current diet
- justify your conclusions.

Feed and nutrient data table – Oakley

am feed	pm feed
1.5 kg cool mix 0.25 kg alfalfa 5 kg haylage	0.5 kg cool mix 1.5 kg alfalfa 6 kg haylage

The forage Oakley eats provides approximately 25 MCal/day.

Daily nutrient requirements for a 550 kg yearling

DE (MCal)	Crude protein (g)	Lysine (g)	Calcium (g)	Phosphorus (g)	Magnesium (g)	Potassium (g)	Vitamin A (1000 IU)
18	680	34	32	23	11.5	37.9	17

Nutrition label from a bag of cool mix

DE (MCal/kg)	2.1
Crude protein (%)	7.2
Crude fibre (%)	15
Crude fats and oils (%)	3
Crude ash (%)	6.8

Ingredients: Micronised barley, flaked maize, peas, calcium carbonate, vitamins and minerals

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You should spend approximately 50 minutes on this activity.

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(Total for Activity 2 = 20 marks)



Activity 3

Carla is a 16.2 hh Irish draught horse. She weighs 700 kg and is in regular work, hunting two days a week. She has one day off after hunting and is exercised on the remaining days. Carla is beginning to look underweight.

Carla is kept in a stable, fed soaked hay in a hay net and hard feed in a wall mounted manger. There is no access to turnout as it is winter and the fields are too wet.

Carla's diet is:

am feed	pm feed	Supplements
6.5 kg hay – soaked	6.5 kg hay – soaked	25 g Epson salts pm
1.5 kg horse and pony nuts	1.5 kg horse and pony nuts	
0.5 kg rolled oats	0.5 kg rolled oats	
0.25 kg molassed chaff	0.25 kg molassed chaff	
0.5 kg soaked sugar beet	0.5 kg soaked sugar beet	

Plan a more suitable diet for Carla.

In your answer you should include:

- an assessment of the composition of Carla's current diet
- a justification for your recommendations for change.

You should spend approximately 30 minutes on this activity.

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(Total for Activity 3 = 12 marks)



Activity 4

Tolbert is a 13 year old, 14hh Welsh Cob. He has been with his current owner for six months. He is ridden at weekends and once or twice during the week. Tolbert lives out in a field with a lot of good quality grass. He is in good condition and has no other health issues. After he has been ridden he is fed a small hard feed as a reward.

When being ridden, Tolbert wasn't walking on as he normally does. He was trying to walk on the grass verge rather than the stony track. Back at the yard he was standing awkwardly and shifting his weight back onto his hind legs. Further investigation found he had hot hooves.

The vet diagnosed Tolbert with laminitis, a condition he has had before with his previous owner, but not for the past five years.

Discuss how the management of Tolbert's diet can help to control this condition.

In your answer you should consider:

- the structure and function of the equine digestive system
- potential causes of Tolbert's nutritional disorder
- Tolbert's lifestyle and work demands
- feeding and monitoring strategies.

You should spend approximately 50 minutes on this activity.

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(Total for Activity 4 = 20 marks)

TOTAL FOR PAPER = 60 MARKS





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