

Geology

OCR AS GCE H087 Unit F793 & Advanced GCE H487 Unit F796

Fieldwork Task Enquiry Form

e-mail to GCEscicenttasks@ocr.org.uk

| | |
|-----------|---|
| Unit F793 | ✓ |
|-----------|---|

| | |
|-----------|--|
| Unit F796 | |
|-----------|--|

| | | | | | | | |
|-------------|--------------------|---------------|----------|----------|----------|----------|----------|
| Centre Name | <i>West School</i> | Centre Number | <i>1</i> | <i>2</i> | <i>3</i> | <i>4</i> | <i>5</i> |
|-------------|--------------------|---------------|----------|----------|----------|----------|----------|

| | | | | | | |
|--------------|----------------|--------------------|----------|----------|----------|----------|
| Contact Name | <i>A Sandy</i> | Year of Assessment | <i>2</i> | <i>0</i> | <i>0</i> | <i>9</i> |
|--------------|----------------|--------------------|----------|----------|----------|----------|

Please complete details of the proposed field task and attach your *student work sheets*.
Complete the grid on page 2 for the mark scheme.

| |
|--|
| <p>Locality and Grid Reference for fieldwork task. <i>Kimmeridge Bay, Dorset. GR 906791 Localities for the steps to 100m east and 500m west to edge of firing range</i></p> |
| <p>Brief description. (Rock types, sedimentary structures, age, fossils etc). <i>Upper Jurassic oil shale, dolomitic limestone and shales of Kimmeridge Clay. Cut by faults and mineral veins with jointing on limbs and crest of a gentle anticline.</i></p> |
| <p>Quantitative measurements to be taken <i>Dip of beds, fault and fold limbs; thickness of beds; throw of fault; size of slickensides striations; directions and frequency of joints on limbs and crest of the anticline</i></p> |
| <p>Qualitative observations to be made <i>Descriptions of the rock types - shale; dolomitic limestone, bituminous shales; observations of fossils and mineral veins; descriptions of the fold, fault, joint and slickensides structures</i></p> |
| <p>Details of techniques to be carried out (Graphic log, field sketch, mapping etc). <i>Field sketches of fault and fold structures fully labelled</i> <i>Descriptions of all features</i> <i>Measurements of joint data</i></p> |
| <p>Comments by assessor</p> |

Assessable learning outcomes (ALOs)

| | |
|---|---|
| a | (i) demonstrate skilful and safe practical techniques using suitable qualitative methods. 4 +/- 1 marks (ii) demonstrate skilful and safe practical techniques using suitable quantitative methods 4 +/- 1 marks |
| b | (i) make and record valid observations; organise results suitably. 6 +/- 1 marks (ii) make and record accurate measurements to an appropriate precision. 6 +/- 1 marks |

| ALOs | Mark Scheme <i>(insert or delete rows as necessary)</i> | Mark |
|--------------------|--|----------------|
| <i>aii bii</i> | <i>dip of beds, fault and fold limbs measured using clinometer. consideration of true dip and apparent dip on bedding planes as an observation by the teacher all measurements accurate 3 marks; most measurements accurate 2 marks some measurements accurate 1 mark</i> | <i>3</i> |
| <i>aii bii</i> | <i>thickness of beds; throw of fault; size of slickensides striations measured using tapes and ruler all measurements accurate 2 marks some measurements accurate 1 mark safety issues considered - hard hats at base of cliff, state of tides, army range warning signs, very slippery ledges</i> | <i>2 1</i> |
| <i>aii bii</i> | <i>directions and frequency of joints on limb and crest of the anticline measured using compass at both locations. Good strategy required for quality measurements - transect or specified area.</i> | <i>2 1</i> |
| <i>bi</i> | <i>high quality field sketches of fault structures fully labelled 2 marks field sketches of fault structures partly labelled 1 mark</i> | <i>2</i> |
| <i>bi</i> | <i>high quality field sketches of fold structures fully labelled 2 marks field sketches of fold structures partly labelled 1 mark</i> | <i>2</i> |
| <i>ai</i> | <i>descriptions of the rock types - shale; dolomitic limestone, bituminous shales detailed observations 3 marks; good observations 2 marks simple observations 1 mark</i> | <i>3</i> |
| <i>ai bi</i> | <i>descriptions of structures: fault, fold, slickensides, joints detailed descriptions 3 marks; good descriptions 2 marks simple descriptions 1 mark</i> | <i>3</i> |
| <i>bi</i> | <i>observations or sketches of fossils and mineral veins;</i> | <i>1</i> |
| | | [20] |

| |
|--|
| Approved by Date You should allow a period of six weeks between submission of this form to OCR and its return. |
|--|