

# TEACHER NOTES

## The Role of the Engineer

### Rail Engineering



## Contextual Summary

This resource is for key stage 5+ students who are studying engineering as an NVQ, HNC, HND, BTEC, or other certificates with any of the following exam boards: edexcel, City & Guilds, SQA. The resource would also be relevant other students who are studying engineering aspects of any course and wish to get some experience of engineering in a steam railway environment.

The resource is a brief introduction to the opportunities for students at the Isle of Wight Steam Railway.

By prior arrangement, students are able to visit the railway to see engineering processes in practice, as relevant to their own course needs and requirements.

## Task Implementation

Tasks will be dependent on students' individual needs based on their course outline and intended outcomes or project objectives.

Students, teachers or educational establishments will need to contact the Isle of Wight Steam Railway to ensure a suitable visit plan is implemented.

## Ability Levels

There is one version of this resource intended for key information only.

## Key skills practised in this unit:

- ▶ Understanding the role of the engineer at the Isle of Wight Steam Railway
- ▶ Understanding how engineering processes have changed over time/underpin modern techniques

## Relationship to Curriculum

Relevant opportunities exist here for any students interested in railway engineering. Students interested in heritage restoration that involves engineering processes would also find a visit useful and relevant.

## Enrichment Opportunities

This resource allows students the opportunity to see engineering processes in action, in situ, and enables them to ask questions to enhance their understanding. It is hoped that they will be able to gain a fuller, more hands-on experience.

For further details visit [www.edudest.info](http://www.edudest.info) and click:

- ▶ *Resource Finder* - to locate specific resources identified above
- ▶ *Venue Finder* - to learn more about education at this venue
- ▶ *Subject Finder* - to find other relevant Isle of Wight venues

### SUBJECT

Engineering

### UNIT

The Role of the Engineer (Railways)

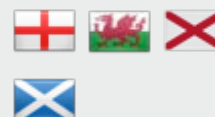
### OPPORTUNITIES FOR USE

- ✗ Pre-Visit
- ✓ On-Site Activity
- ✗ Post-Visit
- ✗ Peripheral Task



variable

### APPLICABILITY



KS5+

S6 +

### CURRICULUM / SYLLABUS

- ✓ SQA
- ✓ City & Guilds
- ✓ Edexcel

Applies to Resource numbered:

101261

