

*Operate an
overhead crane*

Operate an overhead crane

Topics

Notional Hours

TE314	Understanding the basics of overhead lifting operations	10
TE314	Trouble shooting on overhead lifting systems	10
TE314	Operating an overhead lifting system to lift, use and move material under normal circumstances	24
TE314	Operating an overhead lifting system under abnormal circumstances	16
Total Notional Hours		60

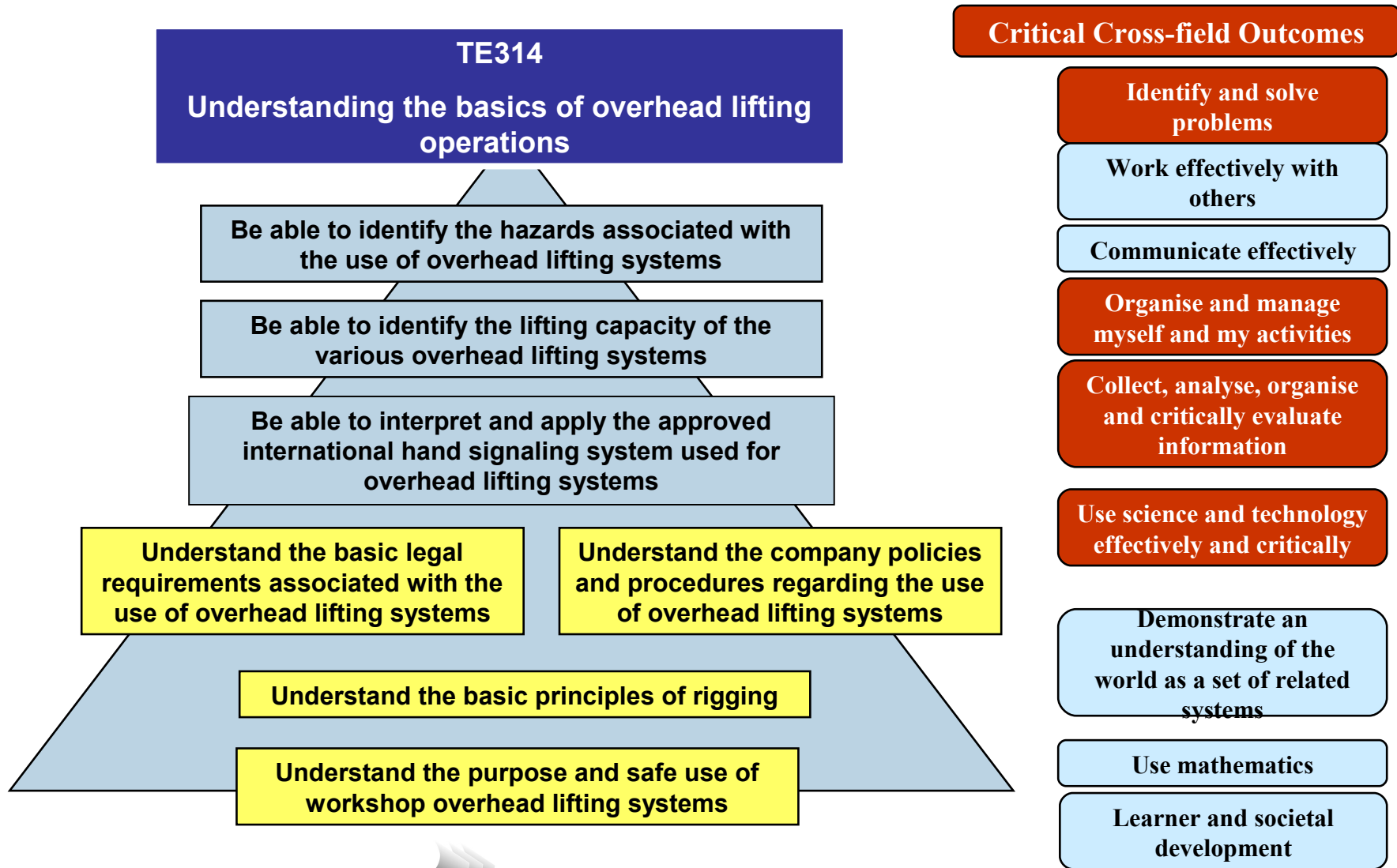
Modules

P&P3EL
Basics of overhead crane operations

P&P3CR
Practical forklift operations

US: 8039

Operate an overhead crane



National Certificate in Paper & Pulp Manufacturing NQF Level 3

Topic Specification: **TE314**

Understanding the basics of overhead lifting operations

Learning Activities

Assignment Description

Topic assessment criteria

Collect Information

Use Multi media

Self Study

Plant investigations

Media search

Expert demonstration

Attend lectures

**W
H
A
T**

Individual or group training. Study given materials regarding overhead lifting operations. A discussion / demonstration of the basic functions and safe use of a overhead lifting systems is facilitated.

HOW

The assessor will observe and confirm that learners:

- Understand the purpose and safe use of workshop overhead lifting systems
- Understand the basic principles of rigging
- Understand the company policies and procedures regarding the use of overhead lifting systems
- Understand the basic legal requirements associated with the use of overhead lifting systems
- Are able to interpret and apply the approved international hand signaling system used for overhead lifting systems
- Are able to identify the lifting capacity of the various overhead lifting systems
- Are able to identify the hazards associated with the use of overhead lifting systems

Analyse, plan and make decisions

Group Discussions

Educational games

Case studies

List / Tabulate

Develop recommendations

1. Learners are supplied with copies of the company policies and procedures regarding the use of overhead lifting systems
2. List the various overhead cranes and their lifting capacities
3. The following demonstration is facilitated in the workshop and learners note details:
 - the purpose and safe use of workshop overhead lifting systems
 - basic principles of rigging
 - international hand signaling system used
 - the lifting capacity of the various overhead lifting systems
4. Learners individually undertake an inspection of the operation of overhead lifting systems and identify all potential hazards
5. Recommendations are made to reduce / avoid these hazards and the impact of possible hazards.
6. Learners report recommendations and include a summary of workshop discussion

Execute, test and evaluate

Job assignment

Make presentation

Complete documents

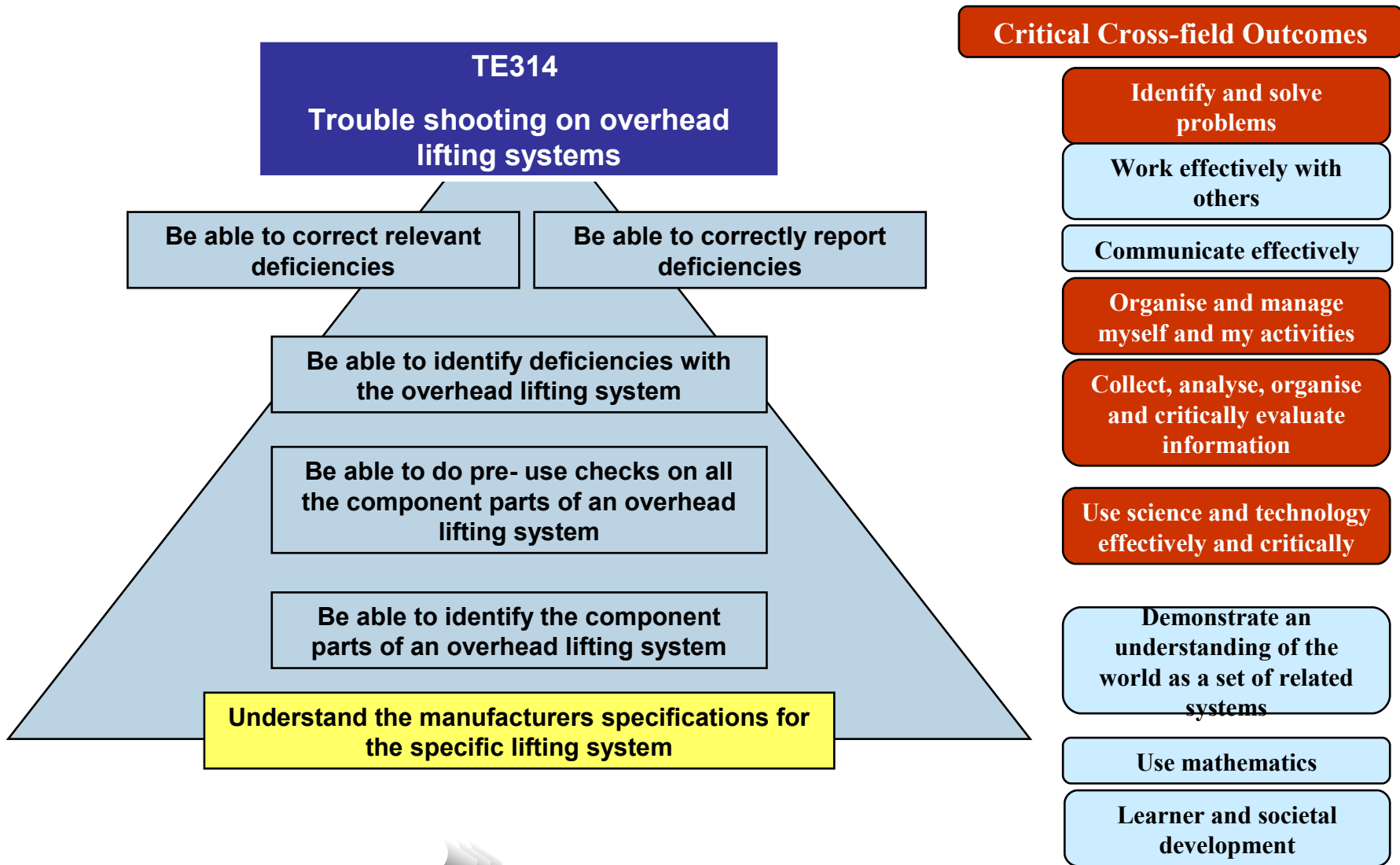
Draft a report

Complete a test/questionnaire

Notional Hours
10

US: 8039

Operate an overhead crane



Learning Activities

Assignment Description

Topic assessment criteria

Collect Information

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Self Study

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Expert demonstration

Attend lectures

**W
H
A
T**

Individual or group training. Study given materials regarding trouble shooting on overhead lifting systems. A discussion / demonstration is facilitated at an overhead lifting system.

HOW

The assessor will observe and confirm that learners:

- Understand the manufacturers specifications for the specific lifting system
- Are able to identify the component parts of an overhead lifting system
- Are able to do pre use checks on all the component parts of an overhead lifting system
- Are able to identify deficiencies with the overhead lifting system
- Are able to correct relevant deficiencies
- Are able to correctly report deficiencies

Analyse, plan and make decisions

Group Discussions

Educational games

Case studies

Use checklists

Develop recommendations

1. Learners are supplied with a copy of the manufacturers specification for the specific lifting system
2. A discussion / demonstration of the following is facilitated at an overhead lifting system:
 - the component parts of the lifting system
 - how to do pre-use checks
 - how to identify and correct common problems
3. Learners individually identify and correct problems under supervision
4. Complete any relevant pre-use check and deficiency reports as normally required

Execute, test and evaluate

Job assignment

Make presentation

Complete documents

Draft a report

Complete a test/questionnaire

Notional Hours
10

US: 8039

Operate an overhead crane

TE314

Operating an overhead lifting system to lift, use and move material under normal circumstances

Be able to lift, move and lower all normal types of material

Be able to apply the correct slinging and fastening practices for the various material being lifted and moved under normal circumstances

Understand the various safe slinging practices

Critical Cross-field Outcomes

Identify and solve problems

Work effectively with others

Communicate effectively

Organise and manage myself and my activities

Collect, analyse, organise and critically evaluate information

Use science and technology effectively and critically

Demonstrate an understanding of the world as a set of related systems

Use mathematics

Learner and societal development

National Certificate in Paper & Pulp Manufacturing NQF Level 3

Topic Specification: **TE314** Operating an overhead lifting system under normal circumstances

Learning Activities

Assignment Description

Topic assessment criteria

Collect Information

Use Multi media

Self study

Plant investigations

Media search

Expert demonstration

Attend lectures

Analyse, plan and make decisions

Group Discussions

Summarise/describe

Case studies

List / Tabulate

Develop recommendations

Execute, test and evaluate

Job assignment

Make presentation

Complete documents

Draft a report

Complete a test/questionnaire

**W
H
A
T**

Group or individual training sessions where, through demonstration, the learner first observes the implementation of operating procedures and then implement the procedures himself under supervision

HOW

- By using relevant checklists and operating procedures, learners will first observe and then, under supervision, implement the following procedures:
 - apply the correct slinging and fastening practices for the various material being lifted and moved under normal circumstances
 - lift, move, lower and stack all normal types of material
- Complete any relevant pre-check, start-up, accidents and incidents, etc. reports as normally required.

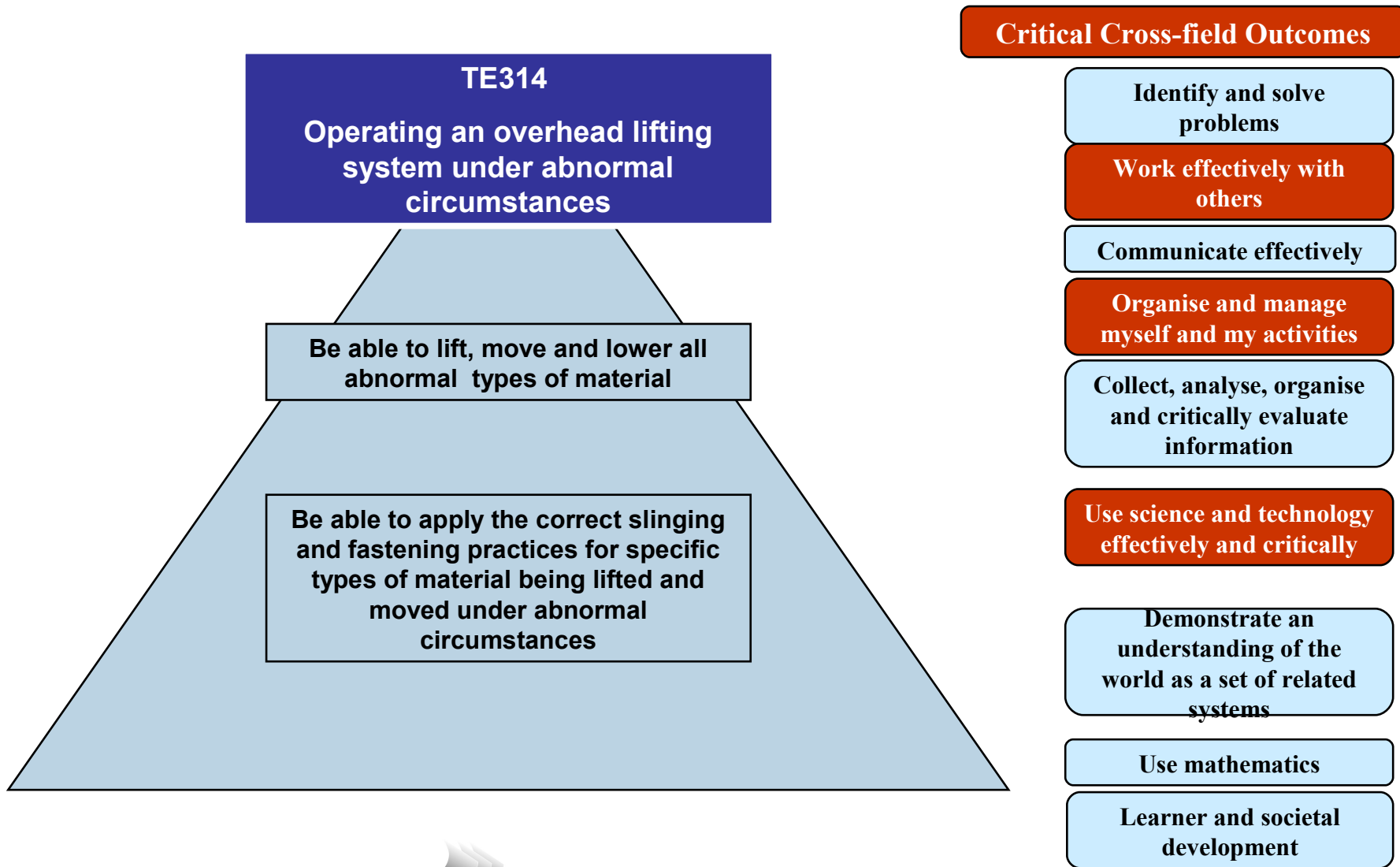
The assessor will observe and confirm that learners:

- Understand the various safe slinging practices
- Are able to apply the correct slinging and fastening practices for the various material being lifted and moved under normal circumstances
- Are able to lift, move and lower all normal types of material

Notional Hours
24

US: 8039

Operate an overhead crane



Collect Information

Use Multi media

Self study

Plant investigations

Media search

Expert demonstration

Attend lectures

**W
H
A
T**

Group or individual training sessions where, through demonstration, the learner first observes the implementation of operating procedures and then implement the procedures himself under supervision

HOW

The assessor will observe and confirm that learners:

- Understand the various safe slinging practices
- Are able to apply the correct slinging and fastening practices for specific types of material being lifted and moved under abnormal circumstances
- Are able to lift, move and lower all abnormal types of material

Analyse, plan and make decisions

Group Discussions

Summarise/describe

Case studies

List / Tabulate

Develop recommendations

1. Facilitate a discussion with an overhead lifting system specialist on:
 - the various types of abnormal circumstances relevant to the workplace
 - the limitations of the system
2. The learner must be shown typical circumstances under which the overhead crane cannot be used
3. By using relevant checklists and operating procedures, learners will first observe and then, under supervision, implement the following procedures using a overhead crane:
 - lift and load material under defined abnormal loading circumstances
 - lift and load abnormal types of material
4. Complete any relevant pre-check, start-up, accidents and incidents, etc. reports as normally required.

Execute, test and evaluate

Job assignment

Make presentation

Complete documents

Draft a report

Complete a test/questionnaire

Notional Hours
16