

Resources you will need for this week...

- » Sheet metal for the soldering practice exercise enough for each trainee to manufacture the parts bins
- » Soldering iron, solder and flux for each trainee
- » 12mm rod, 300mm long for each trainee. Oxyacetylene plants, hand tools, anvils
- » Three work stations bent pin / copper pipe offcuts and joints
- » Filler rod, mild steel sheet (100mm x 50mm) for each trainee, 20mm pipe
- » Examples of gas pressures/regulators, meters, manometers, types of burners, rating plates.

3	Monday	Tuesday	Wednesday	Thursday	Friday
ORNING	CLASSROOM Introduce and supervise theory assessments: • 2138 • 21883 Introduce the outcomes and expectations for Week 2 Teach • The trade science around cold water theory: potability and source • How building and compliance documents fit into the legislative framework including G12 Water supplies, G13 Foul Water	CLASSROOM Teach the theory of • Welding safety • Welding types WORKSHOP Demonstrate how to manufacture • A bent pin • Copper pipe fittings and joints • Folding and making parts bins	WELDING WORKSHOP Remind trainees of safety aspects. Demonstrate each technique. • Oxy acetylene • Gas fusion sheet • Sheet Butt • Sheet Fillet • Sheet Lap • Pipe Butt • Pipe Fillet Trainee Practice They need to produce <i>three</i> of each weld for sheet and <i>one</i> weld for pipe.	 WELDING WORKSHOP Demonstrate Oxy acetylene / Bronze Sheet welding Trainees practice Oxy acetylene / Bronze Sheet Sheet Fillet Sheet Lap Pipe Fillet This is a partial assessment for Oxy acetylene / bronze sheet welding. 	CLASSROOM Teach the theory of • Excavation and trenching • Safety in excavations and shafts • Hazardous substances and environments • Notifiable works • Line, level and gradient • (L+N fractions, decimals, %, Ratio)



AFTERNOON

CLASSROOM

Monday

Teach...

- · The theory of metals and their properties.
- The different metals, their properties, ductility, uses etc.

Trainee practice...

Drawing parts bins exercise - drawing a given shape and then working out a cutting and folding sequence.

WORKSHOP

Demonstrate...

Soldering and spot welding including the related safety aspects.

Trainee practice...

Soldering and spot welding.

This is a partial assessment for

Trainee practice				
Trainees move between				
work stations to				
-				

manufacture • A bent pin

WORKSHOP

Tuesday

- Copper pipe fittings and
- ioints
- manufacture
- Parts bins

joints Parts bins Show the Gas 101 DVD if a copy is available.

Wednesday

Trainees move between

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work stations to

Introduce...

Teach...

- Teach the theory of
- Gas characteristics
- Gas properties and combustion
- Heat / water vapour
- Carbon monoxide
- Flammability ranges
- Air gas ratio's
- Heat and heat values
- Fuel air ignition
- · Complete and incomplete combustion

WORKSHOP

Thursday

Introduce...

demonstrate and discuss

- Combustion
- · Gas pressures / regulators
- Meters
- Manometers
- Types of burners
- Rating plates

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Teach...

Teach the theory of

- Ventilation requirements for combustion
- · Gas legislation and compliance

Friday

WORKSHOP

Trainee practice...

Trainees complete the manufacture of

- A bent pin
- Copper pipe fittings and ioints
- Parts bins

CLASSROOM

Sum up...

the key points of the week. Set the scene for what will be covered in Week 2 and what assessments to study for.

- A bent pin · Copper pipe fittings and



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Trainee practice			
Trainees move between			
work stations to			

ManufactureA bent pin

Tuesday

WORKSHOP

- Copper pipe fittings and
- joints
- Parts bins
- n Trainees move between work stations to manufacture • A bent pin

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Introduce...

 Copper pipe fittings and joints

Wednesday

• Parts bins

Show the Gas 101 DVD if a copy is available.

Teach...

- Teach the theory of
- Gas characteristicsGas properties and
- combustion
- Heat / water vapour
- Carbon monoxide
- Flammability ranges
- Air gas ratio's
- · Heat and heat values
- Fuel air ignition
- Complete and incomplete combustion

Thursday

WORKSHOP

Introduce...

demonstrate and discuss

- Combustion
- Gas pressures / regulators
- Meters
- Manometers
- Types of burners
- Rating plates

CLASSROOM

Teach...

Teach the theory of

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 for combustion
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CLASSROOM	WORKSHOP	CLASSROOM	WORKSHOP
Teach	Trainee practice	Introduce	Introduce
 The theory of metals and their properties. The different metals, their properties, ductility, uses etc. 	Trainees move between work stations to manufacture • A bent pin • Copper pipe fittings and	Trainees move between work stations to manufacture • A bent pin • Copper pipe fittings and	demonstrate and discuss • Combustion • Gas pressures / regulators • Meters
Trainee practice	joints • Parts bins	joints Parts bins 	ManometersTypes of burners

Drawing parts bins exercise - drawing a given shape and then working out a cutting and folding sequence.

WORKSHOP

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Rating plates

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