Trade of Metal Fabrication	
Module 3:	Plate Fabrication
Unit 5:	Saddle Support
	Phase 2

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Document Release History

Date	Version	Comments
14/12/06	First draft	
13/12/13	SOLAS transfer	

Module 3 – Plate Fabrication

Unit 5 – Saddle Support

Duration – 7 Hours

Learning Outcome:

By the end of this unit each apprentice will be able to:

- Read and interpret drawing
- Mark out, flame cut, roll, bend, assemble and weld components of a saddle support

Key Learning Points:

Sk	Marking out material and setting out.
Sk	Oxy-fuel gas cutting.
Sk Rk	Drilling – Work Holding. *(Also see Module 1 Unit 3).*
Sk	Template making.
Sk	Rolling.
Sk Rk	Bending – V Block ratio. *(Also see Module 3 Unit 1).*
Sk Rk	M.A.G.s welding process. *(Also see Module 2 Unit 3).*
M	Chord length. *(Instructor explains this in classroom).*
H	Safety procedures when cutting, drilling, bending and welding. *(Also see Module 1 Unit 3, Module 2 Unit 10 and Module 3 Unit 1).*
M	Basic costing – material and job costing.
Sk	Behaviour of materials – allowance for springback.
P	Ability, initiative, standard of work.

Training Resources:

- Fabrication workshop
- Pyramid rolls press brake
- Pedestal drill
- Drill bits oxy/fuel cutting equipment
- M.A.G.s welding plant and equipment
- 100 x 6mm flat bar
- 6mm mild steel plate
- Safety clothing and equipment

Key Learning Points Code:

M = Maths D= Drawing RK = Related Knowledge Sc = Science

P = Personal Skills Sk = Skill H = Hazards

Basic Costing

	Contractor		
Stage 1	Check ownership solvency, others involved etc.		
Stage 2	a) Examines the drawings and documents.	b) Prepares a list of questions to be answered.	c) Quotations for materials.
Stage 3	a) Agrees a time frame.	b) Checks availability of material involved.	c) Checks his own money situation insurance etc.
Stage 4	a) Finish on job/galvanising/paint etc.	b) Travel/distance etc.	c) Gets the answers to the list of questions.
Stage 5	a) Considers labour and plant.	b) Plans work schedules.	c) Price the quantities.
Stage 6	a) A budget is set for the project.	b) Calculates profits.	c) Final check.

Now the job can get under way.

Note: Working drawings, tender documents, specifications and bills of quantities have to be precise. Anything unclear, sloppy or incomplete will be a sure source of future troubles and claims.

Self Assessment

Questions on Background Notes – Module 3.Unit 5

No Suggested Questions and Answers.

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