

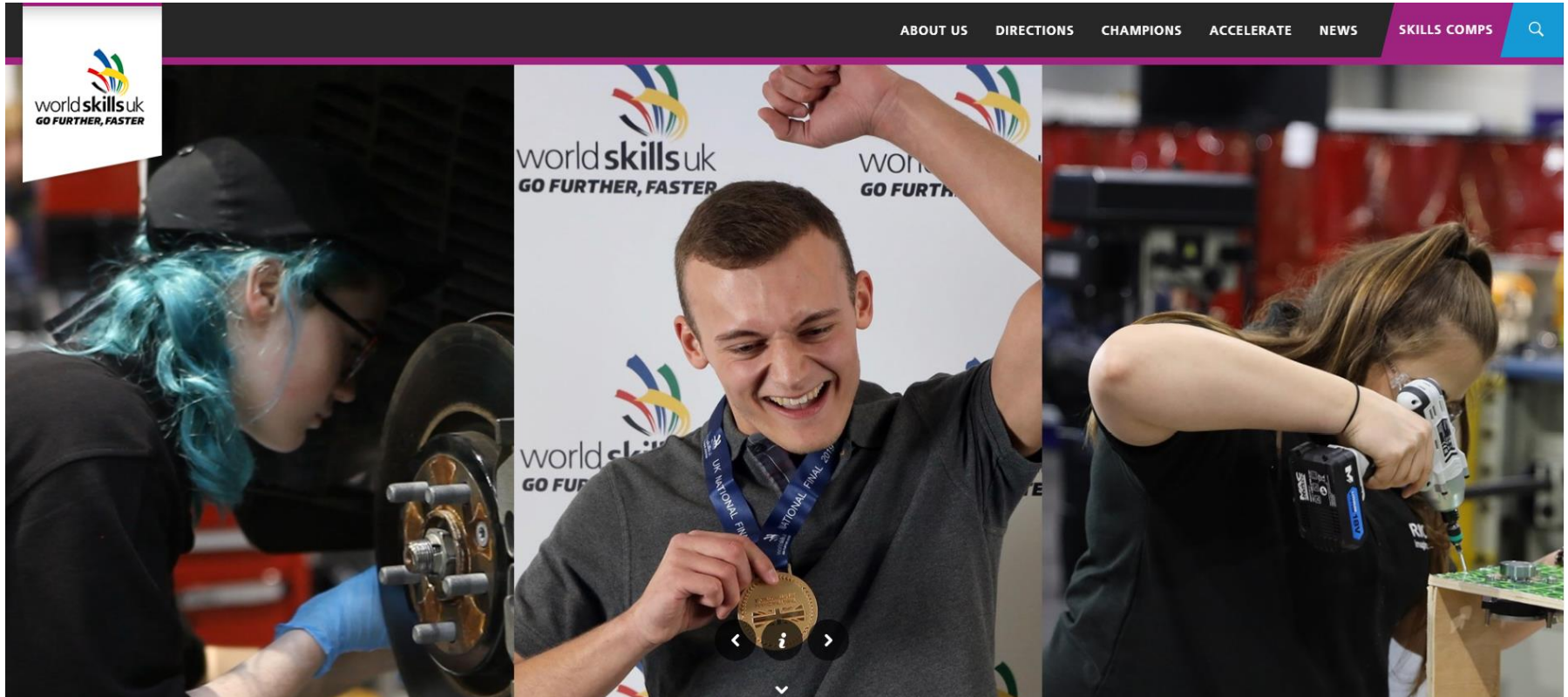
Skills Competitions



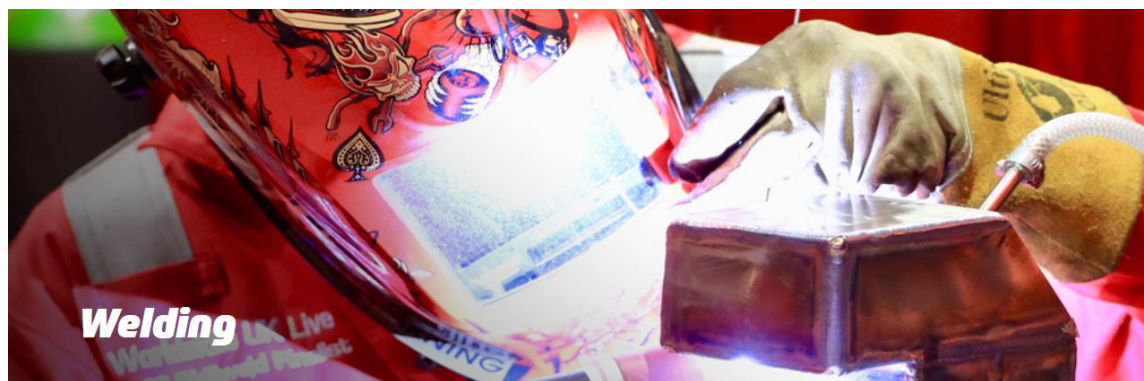
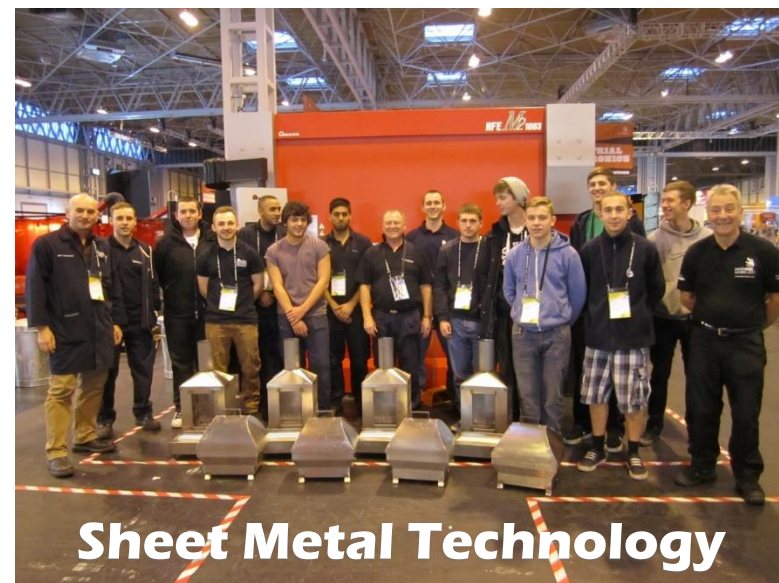
Andy Whitehouse
World Skills Expert
Construction Metalwork

- What are they
- What is involved
- How to get involved

<https://www.worldskillsuk.org/>



Construction Metal



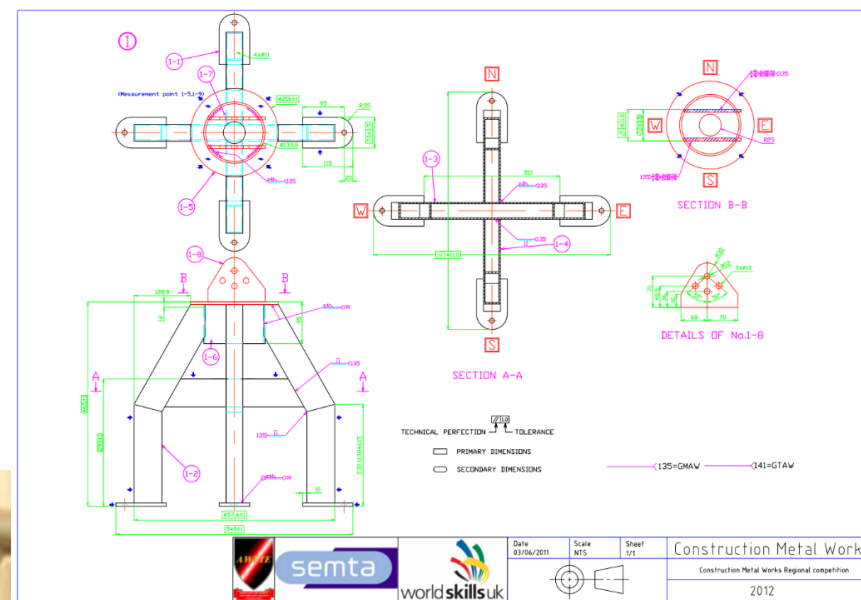
<http://www.airproducts.co.uk/microsite/uk/skillweld/TheCompetition.htm>

Competition cycle



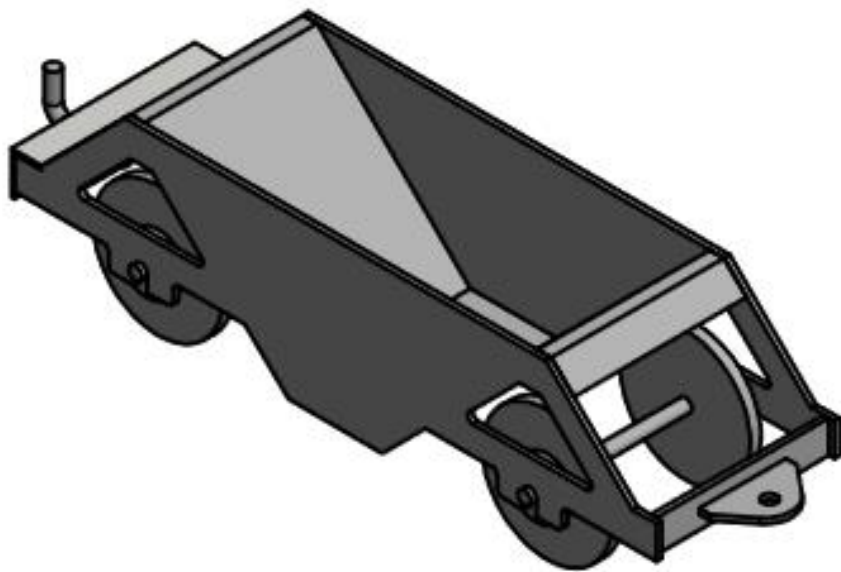
National Heats – 17th April to 26th June 2020

10 Events across UK
60 – 80 Competitors

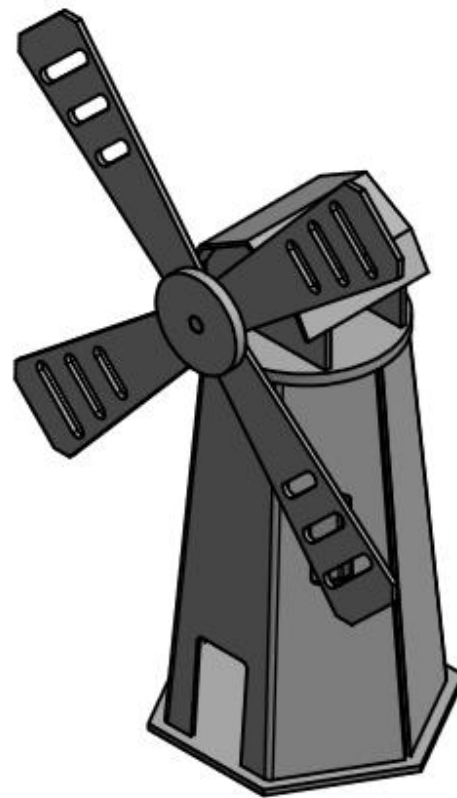


2010 to 2016

2020 Regional.....?



2017 to 2018

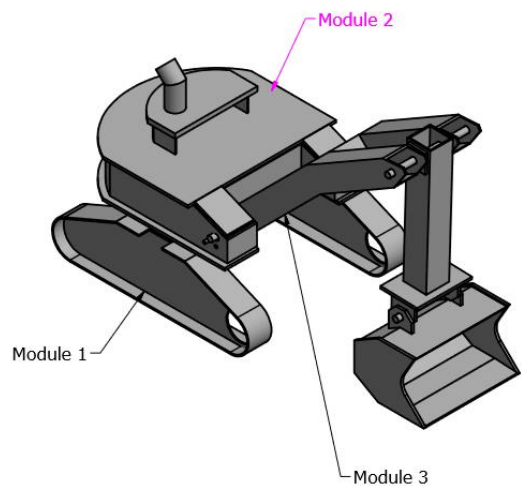


2019

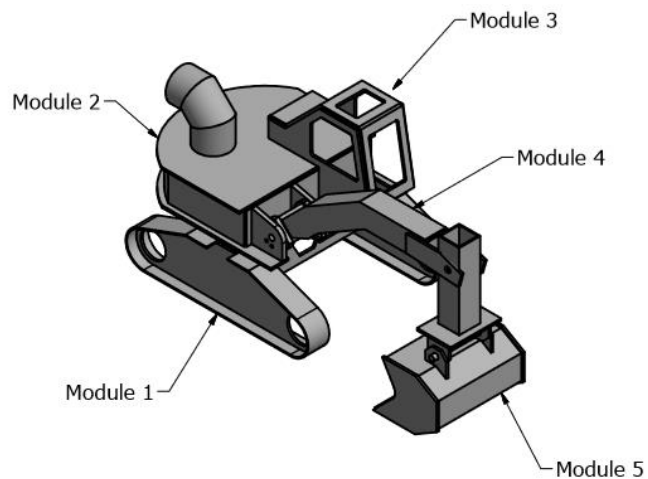
National Final - November NEC







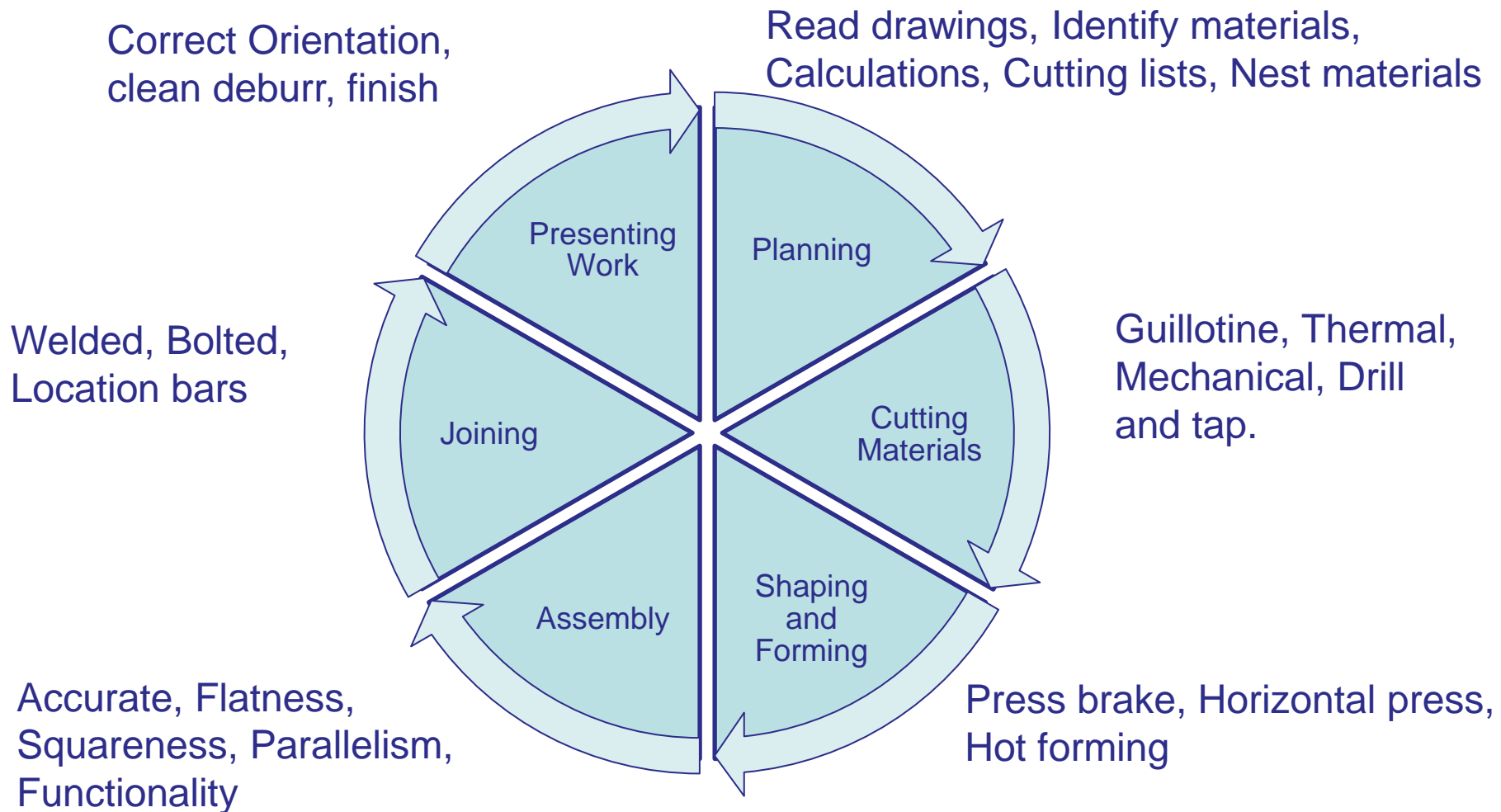
2018



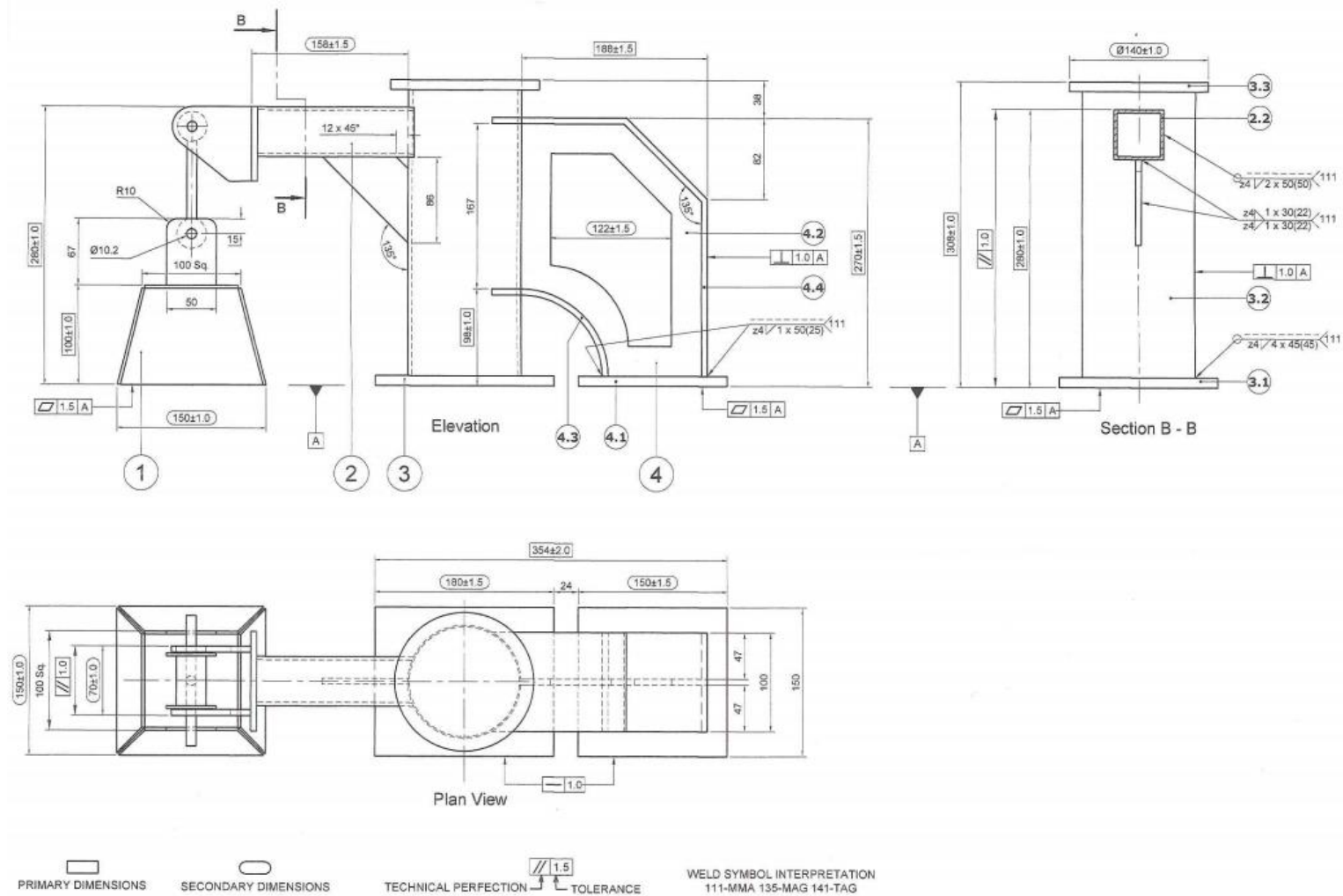
2019



Basic skills done well



What is involved....



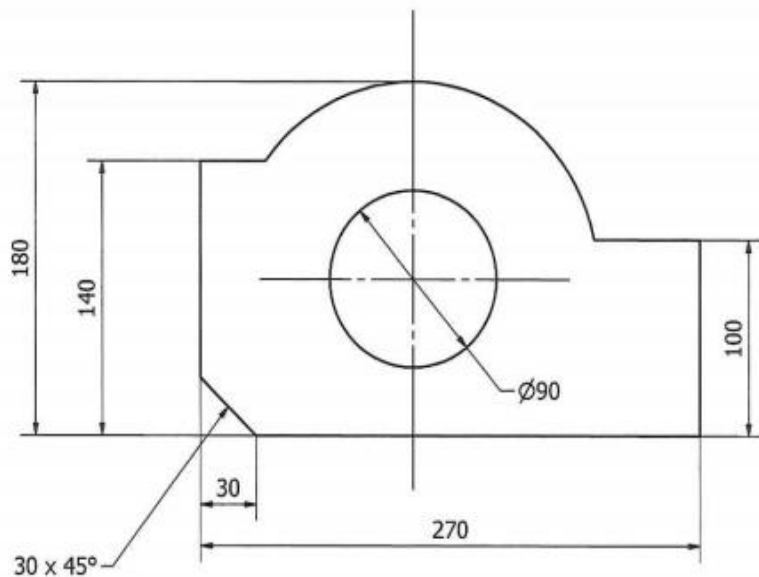
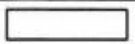






TABLE			
Feature	Size	Measurement	+/- 1.0mm
Length	270mm		
Height	180mm		
Height	140mm		
Height	100mm		
Diameter	90mm		
Angle	45		

TABLE						
Oxy Fuel Quality	Gauge	Rubics	90mm Diameter	Outside Radii	LH Edge	RH Edge
Exceeds Industry Standard	Perfect	3				
Above Industry standard	Better than expected	2				
Meets Industry standard	Expected	1				
Below Industry standard	Scrap or Rework	0				
Comments						

		Squareness - Perpendicular
Primary Dimension ± 0.59mm		Flatness
		Parallelism
Secondary Dimension ± 1.09mm	Technical Perfection	

Top Tips.... basic skills done well

Planning – read drawing, make cutting list, apply calculations

Planning – time management, order of work

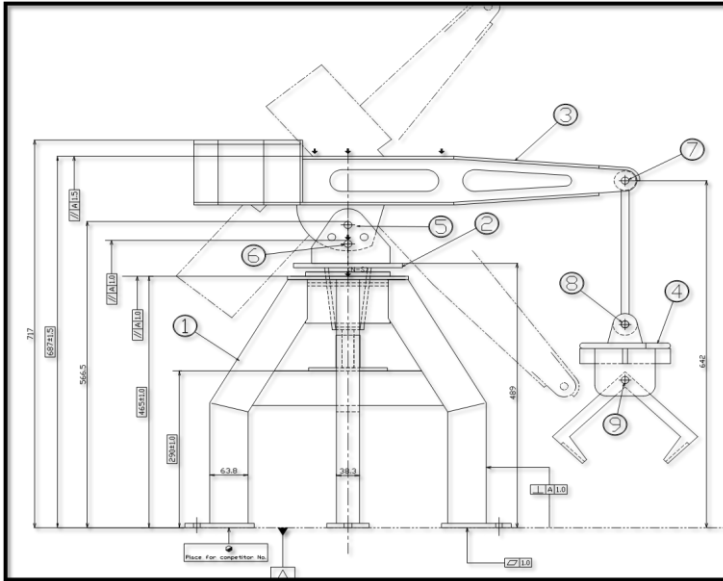
Material removal – accuracy, quality, efficiency

Assembly – flat, square, accurate

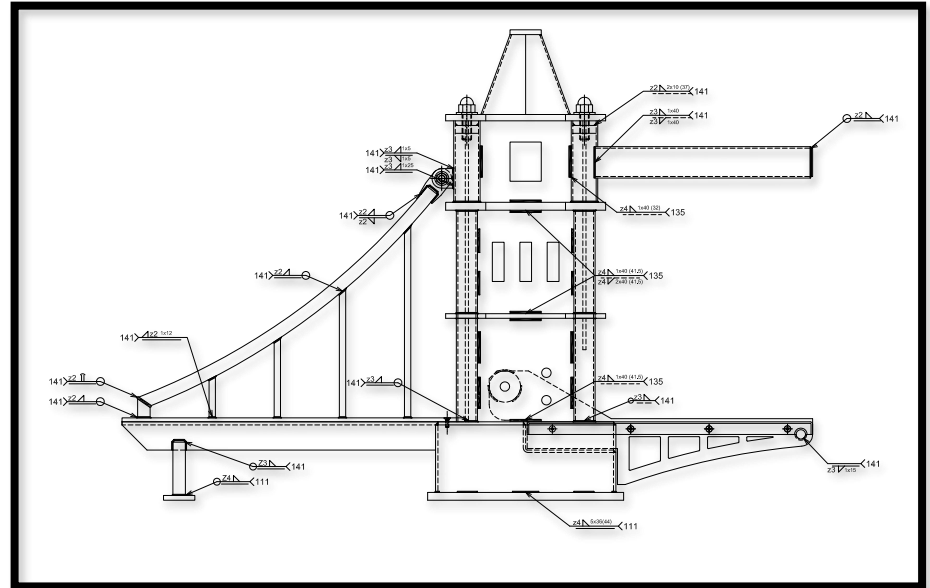
Joining – quality welding defect free, compliance with weld symbols

Finish – defect free; sharp edges, tool marks

International Competitions



Calgary 2009



London 2011



2013 Leipzig





2015 Sao Paulo





2019 Kazan



