

Assessment Requirements

Unit BP21K – Knowledge of Motor Vehicle Body Metal Inert Gas (MIG) Brazing Operations

Content:

- a The safe working practices and procedures to be observed when operating brazing installations (working with machinery; the use of appropriate personal protective equipment; machine guards; operation of machine safety devices; stopping the machine in an emergency; closing the machine down on completion of activities; statutory requirements, risk assessment procedures and relevant requirements of HASAWA, COSHH and Work Equipment Regulations; safe disposal of waste materials)
- b The hazards associated with MIG brazing machines (dangers from relevant equipment sources; fumes and gases; hot metal; moving parts of machinery), and how they can be minimised
- c Principles of the relevant brazing process; terminology used in brazing
- d The key components and features of the equipment
- e How to extract the information required from drawings and brazing procedure specifications
- f Operation of the machine controls and their function; care of equipment; control and storage of consumables
- g Setting up and aligning the work pieces
- h Monitoring the installation during the brazing process; recognition of problems, and action to be taken
- i Problems that can occur with the brazing activities, materials, filler metals and joint defects
- j Self inspection of completed work
- k Organisational quality systems (standards to be achieved; production records to be kept)
- l Personal approval tests and their applicability to your work
- m The extent of your own authority and whom you should report to if you have problems that you cannot resolve
- n Reporting lines and procedures, line supervision and technical experts