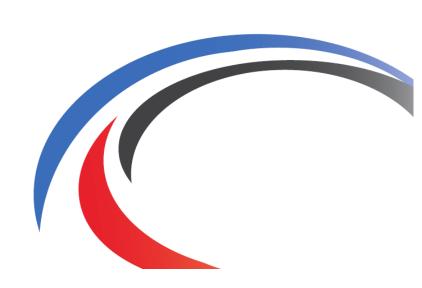


# **Back to Basics**

# Risk Assessment, Hazards and Personal Responsibility

John Ellis F.Inst.R



# Assessing Risks and Hazards



Requires a thorough and thoughtful process which analyses the work to be carried out and includes:

- Assessing risks and hazards
- Removing any necessary risks and hazards
- Mitigating any risks that cannot be removed to the lowest possible level

The purpose of the risk assessment process is to avoid risk to self, colleagues, general public, bystanders and the local and global environment.

# Assessing Risks and Hazards



- Competent persons are required to carry out risk assessment, to develop safe working procedures so that competent people can work safely.
- It could be said that if a person is not competent to do a job they are not competent to carry out the risk assessment.
- Over the last 10 years the number of Level 2 qualified technicians has reduced because the LEGAL minimum requirement is FGas Certification.

### Risk Assessment



# Generic Risk Assessment

Vs

Dynamic Risk Assessment

# Refrigerant Hazards









 $\Delta t = 63K$ 



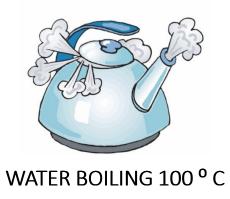
LIQUID BOILING AT -52 ° C





 $\Delta t = 89K$ 







# Refrigerant Burns







## Hot Work



### AIR





#### DIESELLING



R134a









# Working at Height Some Bad Practice!













Ladders: The Task



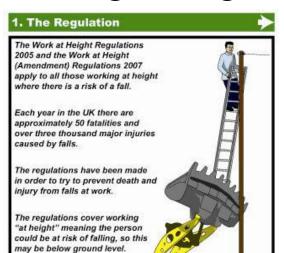


#### Avoid side loading a step ladder:

- · Position the steps so they face the work
- Or secure the steps at an appropriate point

If you need both hands when using a stepladder, you can use your knees or chest to maintain 3 points of contact - but only for brief periods.

## Working at Height



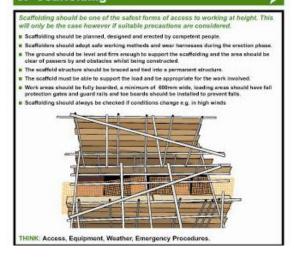
#### 4. Mobile Elevating Work Platforms (MEWPS)



is being left unattended it should be made as inaccessible to vandals as possible.



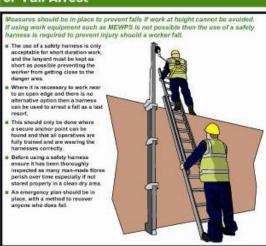
#### 5. Scaffolding







#### 6. Fall Arrest



# **Electrical Fault Finding**







ELECTRICAL SAFETY TEST	
APP. I.D. PASSED BY	
TEST DATE	NEXT TEST DUE



# Manual Handling





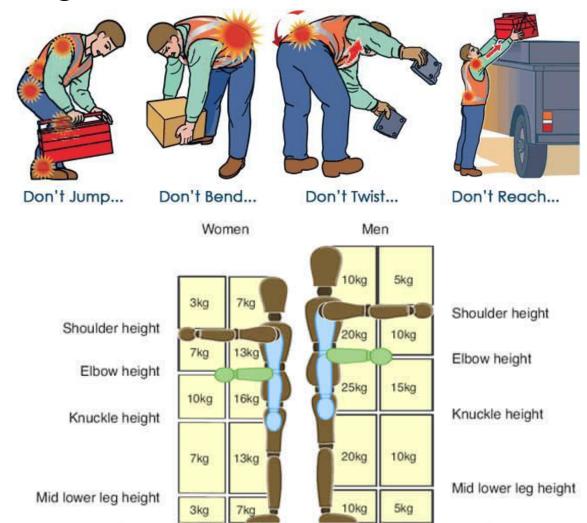






# Manual Handling









"Customers often climb over the barriers to do their shopping"



# Managing Bystanders











# Least Favourite Jobs (taken from a straw poll of our students)



- XWorking single handed when two people are required
- Changing large compressors in areas which may be challenging; height/confined spaces



- Awareness of near miss procedures which are not enforced or actioned
- Working at height e.g. going up galley ladders with a tool bag getting stuck
- **X**Hot works
- Pressure testing
- Working in areas where members of the public are present they ignore barriers or signage





Risk assessments must be:



Carried out by competent person



Site specific for the job including current conditions



Dynamic



Task basec



The opposite of competence is incompetence.

You cannot be nearly competent.

You cannot be nearly safe!



