

Competence 5

The ability to undertake routine fault finding activities on electrical, electronic and video systems

This meets the requirements of IMCA

Candidate Name:		Date:	
Activity Number (1,2, or 3):			

Performance Criteria: all of these must be assessed over a minimum of 3 work activities

Type of Evidence: Observation (O), Work Product (P), Written (W), Questioning (Q), Not Covered (N/C) or Not Applicable (N/A)

Performance Criteria		Type of Evidence
a)	Can locate and use all system drawings prior to carrying out fault finding activities	
b)	Plans the activity in a safe manner and obtains all necessary authorisations	
c)	Identifies hazards that can arise during fault finding procedures	
d)	Demonstrates a logical approach to fault finding and follows procedures for fault finding on electronic systems	
e)	Identifies and inspects the correct test equipment for carrying out fault finding activities on electrical/electronic systems	
f)	Calibrates test equipment, where appropriate, prior to carrying out fault finding activities	
g)	Measures voltages, resistances, continuity and insulation on system components in a safe and accurate manner	
h)	Where applicable demonstrates the safe and accurate use of fibre optic test equipment when required to diagnose faults in subsea systems	
i)	Records information and data collected during fault finding activities in a logical manner which can then be interpreted by others	
j)	Safely removes components for inspection to determine if the unit is faulty	
k)	Understands the limitations of fault finding and can identify when components may be simply replaced rather than repaired	
l)	Can replace components on the equipment in order that they operate in accordance with system requirements	
m)	Performs system tests in a safe manner after fault finding activities	
n)	Reinstates the system after fault finding activities have been completed	
o)	Understands the green and red tagging procedure for system components	
p)	Can complete fault report documentation including engineer's logs and maintenance software packages	
q)	Safely packages equipment for sending offshore	

Witness name: (If applicable in assessment plan)		Date:	
Assessor name:		Date:	