

EDUCATION RECOMMENDATIONS



APPENDIX: CETOP QUALIFICATIONS APPROVED CENTRES GUIDELINE APPENDIX CETOP RE 2021/06.01 - H/P

With examples that can be modified by the CETOP Member Associations

Appendices:

Typical Centre Approval Report Forms given for <u>example</u> that can be modified and used by the CETOP Member Associations.

- ★ CENTRE APPROVAL REPORT FORM (CETOP/AR/1)
- ★ APPLICATION FOR CENTRE APPROVAL (CETOP/CA/1)
- ★ APPROVED CENTRE EXAMINATION ENTRY (CETOP/EE/1)
- ★ EXTERNAL VERIFIER'S VISIT REPORT (CETOP/EV/1)
- ★ INTERNAL VERIFIER'S REPORT (CETOP/IV/1)
- ★ INDUSTRY STANDARD QUALIFICATION, CANDIDATE REGISTRATION (CETOP/CR/1)
- ★ CANDIDATE WORK EXPERIENCE VERIFICATION, Level 3 Hydraulics (CETOP/WE/1/HY)
- ★ CANDIDATE WORK EXPERIENCE VERIFICATION, Level 3 Pneumatics (CETOP/WE/1/PN)



CENTRE APPROVAL REPORT FORM

Form CETOP/AR/1

Copy form as required

1	CENTRE DETAILS	2	RECOMMENDATIONS	
	Centre Name:		Full Approval	Tick
	Address:			
	Centre Contact:		Conditional Approval	
	Tel. No.			
	E-mail:		Period of Months	
	External Verifier's Name:			
	Date/Time/Visit:		Rejection	

3	CENTRE APPROVAL	CODE		.EVEL ck the appro	_
	SOUGHT FOR		1	2	3
•	Hydraulics and Control	Н			
•	Industrial Hydraulics and Control	IH	NOT SELECTABLE		
•	Mobile Hydraulics and Control	МН	NOT SELECTABLE		
•	Power Pneumatics and Control	PP			



4	ACCOMMODATION/FACILITIES (Brief Report)
a)	Lecture Room Facilities/Layout
b)	Visual Aids/Presentation Methods
c)	Programme Notes/Support Materials/Software
d)	Manufactures Library, Catalogues
e)	Fluidpower Publications and Relevant Standards
	Recommendations/Comments



5	PRACTICAL F	ACILITIES/E	QUIPMENT	AVAILABILITY/	ACCESS
relating to t	e the External Verifier we the equipment necessathe acceptability of the content	ry to effectively de	liver competence		
Comments					
Quality of Equipment					
Range of Equipment					
Age/					
Current					
Recommer	ndations/Comments				



Please tick the appropriate box

6	SCHEME ADMINISTRATION	YES	NO
•	Candidate Training Plans Established (Format) GDPR Secure Records Comments:		
•	Candidate Personal Development Plans Established (Format) GDPR Secure Records, Comments:		
•	Systems for Progress Monitoring/Maintaining/Confidential – GDPR Secure Records 1. Assignments 2. Practical Task Preparation 3. Practical Task Assessment 4. Written Examinations		
	RESPONSIBILITY/CONTROLLED BY - (name)		
	Name of Examinations Officer Met during visit Tel No.		
	E-mail		
	Recommendations/Comments		



7	HEALTH AND SAFETY/HYGIENE	Please t appropri	
		YES	NO
	Health and Safety Policy Operational		
	Relevant Safety Notices in place		
	Risk Assessment carried out and recorded		
	Recommendations/Comments		
8	EQUAL OPPORTUNITIES POLICY IMPLEMENTED		
	Comments		
9	EXTERNAL VERIFIER'S SUMMARY/RECOMMENDAT	IONS	
EVs Sig	nature Dat	re	
Technic	al Manager National Fluid Power Association Dat	re	



APPLICATION FOR CENTRE APPROVAL

Form CETOP/CA/1 Copy form as required

	national CETC					
Programme fo	or Approval	(name)				
Name of Organisation						
Full Address						
Contact Name	Position	n Tel No	E-mail		Web	
have thoroughly rea essary organisationa am aware of the ass carry out a Centre Ap	I commitment and e	equipment base entre visits and	required for Centre	e Approva	ıl.	
We will forward to the Purchase order	e national CETOP N	Member Associa	ation:			
Date						
			Signed			
		P Member		ı staff	•	
		P Member		n staff	•	
Date Application Received		P Member		n staff	•	
Date Application Received		P Member		n staff	•	
Date Application Received Actioned by				n staff	•	
Date Application Received Actioned by Name of ET Member carry				n staff	•	
Date Application Received Actioned by Name of ET Member carry /isit Date Planned				n staff	•	
For official use Date Application Received Actioned by Name of ET Member carry Visit Date Planned Outcome of visit Financial Transactions con	ring out Centre Approval			n staff		
Date Application Received Actioned by Name of ET Member carry Visit Date Planned Dutcome of visit Financial Transactions con	ring out Centre Approval			n staff		
Date Application Received Actioned by Name of ET Member carry //sit Date Planned Dutcome of visit	ring out Centre Approval			n staff		



APPROVED CENTRE: Examination Entry

Form CETOP/EE/1

Copy form as required

This form must be completed by the Approved Centre and returned to the CETOP M. A. at least 2 months before the examination date. Centres will be charged based upon the number of candidates recorded and examination scripts will be sent to the centre accordingly.

Name of O					
· II A -I -I	rganisation				
" II A -I -I					
full Addres	SS				
Contact Na	ame				
el No					
E-mail			Web Signature	Date	
he listed	candidates will be sitting the v	ritten examination on the a	above date.		
	This same form will also			n this information	CETOP M. A. will
	respective Candidates'				
No C	andidates Name	CETOP M. A. Registration No.	Examination Results P= Passed F= Fail	Competence- based-Units P= Passed	CETOP M. A. official use: Certificate Dispatched/Date
1			r-raii		
2					
2					
2					
2 3 4					
2 3 4 5					
2 3 4 5 6					
2 3 4 5 6 7					



EXTERNAL VERIFIER'S VISIT REPORT

Copy form as required

	Fluid Power Industry			
Externa	al Verifier's		Date:	
			7	
Jame.	Approved		Schemes	
vairie.	Approved		Ochemes	
Centre:			Approved:	
zenire.	•		Approved.	•
2	Outto d Donor (N/)			
entre	Contact Person/IV:		Approval	
CT/	NDABDS -			
) IA	NDARDS – (Tick a necessary)			
	AUDIT CHECKS CARRIED OUT	UNSATISFA	CTORY	MEETING SCHEME REQUIREMENT
1	Overall Management Including:			
	Scheme Management Candidate			
	Systems for Tracking Progress			
	Areas of Responsibility			
	Document Control System			
	Health and Safety Policy			
	Quality Systems			
	Internal Verifier Reports			
2	Individual Candidate Records (Random Check)			
3	Inspection of Candidate Assignments			
4	Inspection of Practical Task Assessments			
5	Inspection of Candidate Individual Portfolios			
6	Inspection of Completed Examination Scripts			
	Y ADDITIONAL CHECKS CARRIE	D OUT		
ctions	s to be taken:			
	Tick			
Сору	Sent to Approved Centre		Date	
Conv	Sent to CETOP M. A.		Date	
			Date	
Сору	to File		Date	

Form CETOP/EV/1



INTERNAL VERIFIER'S REPORT

Copy form as required

Form CETOP/IV/1

Internal Verifier's Name: Approved Centre: Qualifications Under Review: Candidate Start Date: Date of Verification:^ Report No: Initial Information Required (Answer or Tick Box) 1 Number of candidates enrolled and registered with CETOP M. A.: 2 Number of candidates active on scheme to date: 3 Number of candidates taking next written examination: 4 Number of candidates successfully completed written examination: 5 Number of candidates preparing to resit examinations: 6 Number of candidates completed/part completed practical task: Verification (Organizational and Quality Control) Yes No CHECKED I Candidate individual record folders – content against checklist II Candidate assignment progress records III Register for candidates attending modules IV Course feedback reports from candidates (4 monthly) V Completed practical task assessment profiles Please tick the appropriate box.



Verification (Assessment Process)	Yes No
Discussed candidate progress with assessor/	Please tick
Assessor/s Name/s:	the appropriate box.
Comments:	
Final Remarks	
Overall performance of Centre to meet the scheme requirements as la Member Association and meeting requirements of the External Verifie	
Acting as Internal I am Satisfied/Not Satisfied with the scheme management, records a	Verifier on behalf of this Centre and methodology.
Actions/Recommendations:	
Copy Sent to External Verifier Dat	ie:
Copy to File Date	de



CANDIDATE WORK EXPERIENCE VERIFICATION, CETOP Level 3 Hydraulics

Form CETOP/WE/1/HY

Copy form as required

This form must be completed by the Candidate and the employer together and returned to the National Fluid power Association (CETOP M.A.). Personal Details (To be completed by the Candidate - BLOCK CAPITALS) Full Name Position Employer's Name Employer's Address Contact Address (Home) Tel No Date of Birth (Civil reg no) E-mail **EMPLOYER WORK EXPERIENCE:** Verification Entry This form must be completed by the Employer of the candidate and returned to the CETOP M. A. by the candidate. **Employer Programme/Scheme** Personal Details (To be completed by the Employer representative - BLOCK CAPITALS) Verification Date Name of Organization Full Address Contact Name Position Tel No Fax No E-mail Web Signature Date



Practical task assessments to verify competency about:

- INSTALLATION
- COMMISSIONING
- PERFORMANCE TESTING
- PROACTIVE MAINTENANCE AND MACHINE MANAGEMENT
- SERVICING
- COMPONENT REMOVAL AND REPLACEMENT



work based experience to CETOP Level 3 Hydraulics
Instruction: Describe what type of work the candidates have been done within:
• INSTALLATION
Describe the candidate's experience in reading hydraulic diagrams to be able to correct install a hydraulic system, including associated electronic diagrams and mechanical drawings.
Describe the condidates and microscopic and an algorithms and an algorithms.
Describe the candidate's experience of assembly based on cleanliness, security and quality.



• COMMISSIONING AND PERFORMANCE TESTING Describe the candidate's experience of commissioning in respect by person, component, system security and cleanliness. Describe the candidate's experience of system functional testing



	TIVE MAINT			TINE MAN	AGEMENT	_
escribe the ca	ndidate's candida	ates experience i	n practical wor			
escribe the ca	NG INC. CO					
escribe the ca						
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Valves

Verification of the candidate's practical experience

1: Control and adjustment:	If experienced tick
Flow	
Speed on certain movements	
Temperature	
Accumulator pressure/pre-charge pressure	
Fluid cleanliness according to ISO classification system	
Sensors and switches for fluid system	
2: Fault finding in systems:	
From diagram and symptom	
With test equipment	
Without test equipment; feel, smell, listen	
By phone description	
3: Understand security and environmental issues at dis-assembly of complete or part of fluid systems and machines:	
Read and understand maintenance and security instructions	
What means by Lockout and Tag out instructions	
Secure movements with plunge or similar equipment	
Check and dis-charge trapped pressure within pipes	
Dis-charge accumulators	
Without maintenance and safety instructions, from diagram and machine structure, analyze actions to be done to be able to work safe	
Cleanliness at dis-assembly of system.	
Understand the importance of managing waste fluids in a safe manner due to environmental issues	
Understand the importance of using relevant personal protection	
4: Maintain and repair hydraulic systems:	
Maintaining systems:	
Exchange sealing's	
Check mounting surfaces	
Couplings	
Flanges	
Valves	
Empty and refill fluid in systems	
Inside cleaning	
Cleaning coolers	
Exchange filter cartridges	
Exchange components:	
Pumps	



4: Maintain and repair hydraulic systems:	
Exchange components:	
Fluid motors	
Electric motors	
Accumulator piston and bladder	
Cylinders	
Hoses	
Other components	
Repair of components, dis-assemble, analyze status, exchange wear parts and re-moun	ıt:
Pumps	
Motors	
Valves	
Cylinders	
Accumulators	
5: Start-up of hydraulic systems after maintenance work I exchange of component:	
Flushing	
De-aeration	
Adjust pressure and flow	
Leakage control	
Control of cleanliness level according to ISO code system	
Cleaning of workplace	
Documentation	
for approved practical experience to CETOP level 3 Hydraulics shall the candidate have perfect fat least 50% of above listed.	oractical experience
comments about the candidate's experiences.	
·	



CANDIDATE WORK EXPERIENCE VERIFICATION,CETOP Level 3 Pneumatics

Form CETOP/WE/1/PN

Copy form as required

This form must be completed by the Candidate and the employer together and returned to the National Fluid power Association (CETOP M.A.). Personal Details (To be completed by the Candidate - BLOCK CAPITALS) Full Name Position Employer's Name Employer's Address Contact Address (Home) Tel No Date of Birth (Civil reg no) E-mail **EMPLOYER WORK EXPERIENCE:** Verification Entry This form must be completed by the Employer of the candidate and returned to the CETOP M. A. by the candidate. **Employer Programme/Scheme** Personal Details (To be completed by the Employer representative - BLOCK CAPITALS) Verification Date Name of Organization Full Address Contact Name Position Tel No Fax No E-mail Web Signature Date



Practical task assessments to verify competency about:

- INSTALLATION
- COMMISSIONING
- PERFORMANCE TESTING
- PROACTIVE MAINTENANCE AND MACHINE MANAGEMENT
- SERVICING
- COMPONENT REMOVAL AND REPLACEMENT



Verified by employer, system related, work based experience to CETOP Level 3 Pneumatics

nstruction: Describe what type of work the candidates have been done within:
INSTALLATION
Describe the candidate's experience in reading pneumatic diagrams to be able to correct install a hyraulic system, including associated electronic diagrams and mechanical drawings.
Describe the candidate's experience of assembly based on cleanliness, security and quality.



• COMMISSIONING AND PERFORMANCE TESTING Describe the candidate's experience of commissioning in respect by person, component, system security and cleanliness. Describe the candidate's experience of system functional testing



• PROAC	CTIVE MAINTENANCE AND MACHINE MANAGEMENT
Describe the c	candidate's candidates experience in practical work
• SERVIC	CE INC. COMPONENT REMOVAL AND REPLACEMENT
Describe the c	CE INC. COMPONENT REMOVAL AND REPLACEMENT candidate's experience of fault finding and repair (dis-assembly and assembly of existing
Describe the c	



Verification of the candidate's practical experience

Verification of the candidate's practical experience	
1: Control and adjustment:	If experienced, tick
Flow	
Speed on certain movements	
Pressure	
Accumulator pressure/site pressure awareness	
Air cleanliness according to ISO classification system	
Sensors and switches for air system	
2: Fault finding in systems:	
From diagram and symptom	
With test equipment	
Without test equipment. (look (visual), listen (auditory))	
By phone/email/conversational description	
3: Understand security and environmental issues at dis-assembly of complete or part of pneumatic systems and machines:	
Read and understand maintenance and security instructions	
What means by Lockout and Tag out instructions	
Secure movements with piston rod locking, 5/3 valves, shot bolts	
Check and safely dis-charge trapped pressure within pipes	
Without maintenance and safety instructions, from diagram and machine structure, analyze actions to be done to be able to work safe	
Cleanliness at dis-assembly of system.	
Understand the importance of managing waste fluids and condensate in a safe manner due to environmental issues	
Understand the importance of using relevant personal protection	
4: Maintain and repair pneumatic systems:	
Maintaining systems:	
Exchange seals within cylinders/valves	
Check mounting surfaces	
Fittings and connectors	
Valves	
Drains within Filter assemblies	
Bowl cleaning of air preparation equipment	
Vacuum components	
Exchange components:	
Filter Elements	
Cylinders	
Valves	



4: Maintain and repair pneumatic systems: Exchange components:	
Proximity sensors (reed switches)	
Hoses/Tubing	
Vacuum components (cups, filters, generators)	
Other components	
Other components Repair of components, dis-assemble, analyze status, exchange wear parts and re-m	nount:
Air filters, regulators, lubricators	nount.
Cylinders Valves	
Vacuum systems	
Sensors	
5: Start-up of pneumatic systems after maintenance work I exchange of compo	nent:
Adjust pressure and flow	
Leakage control	
Control of cleanliness level according to ISO code system	
Cleaning of workplace	
D =	
Documentation	
Cleaning of workplace Documentation For approved practical experience to CETOP level 3 Pneumatics shall the candidate has	ave practical experien
Cleaning of workplace Documentation For approved practical experience to CETOP level 3 Pneumatics shall the candidate have of at least 50% of above listed.	ave practical experien
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