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A Study of the Qualification System for Skilled Labour in the Built Heritage Conservation Industry of Hong Kong

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BACKGROUND	FINDINGS Q			
 1,222 GB & 132 DM (AAB, 2023; AMO, 2022) 31 Specialist Contractors (DB, 2023) 	Comparison of Different Policies Related to the Workforce			
 Stributing (DD, 2023) Heritage is valuable and delicate legacy NO qualification requirements on workforce & Insufficient 		The Specialist List (HK)	Trade Test (HK)	Heritage Skills CSCS Card Pilot Project (UK)
ro quantication requirements on workforce & insufficient qualification of workforce Cause disastrous results on built heritages Research Question: Does HK requires the QS to ensure the performance	Nature	 Mandatory for public works; Guideline for non- public works 	Mandatory for public works;	Mandatory for public works and private works
of Built Heritage Conservation Project (BHCP)? OBJECTIVES	Target	Specialist Contractors	Skilled Labourers	Specialist Contractors & Skilled Labourers
 To identify the problems of the built heritage conservation industry To evaluate the existing policies and guidelines related to the workforce qualification of built heritage conservation projects To determine the necessity of labour qualification to ensure the performance of built heritage conservation projects 	Requirements	 Work experiences Experienced Management staff (FT) & TS Source of materials 	Vork experience Skills	 Heritage Skills Construction Skills Certification Scheme (CSCS) card ✓ NVQ Diploma in Heritage ✓ Recognised qualification for Craft / Conservation ✓ Practical Assessment
 To provide recommendations for developing the QS to ensure the performance of built heritage conservation projects LITERATURE REVIEW III 	Regulating actions	Removal, Suspension, Downgrading or Demotion of Contractors	N/A	N/A
List of Approved Suppliers of Materials and Specialist Contractors for Public Works (The Specialist List)	Review period	Frequently*	5 years	5 years
No. 28 – Repair and Restoration of Historic Buildings	Effectiveness	Low	Medium	High
Allowed to carry out the preservation and conservation works (HKICHD, 2021) Trade Tests	Limitation	Only public works will be reflected	No trade related to heritage works	Require a "Critical Mass" of Qualified Labourer

Trade Tests

- Launched by Construction Industry Council (CIC) from 2010 (Anson et al., 2021)
- Benchmarks of **skills** and **competency levels** of senior workers
- Certificate the **capability** to skilled labourers by **skills assessment**
- NO trade tests for works related to heritage conservation projects Significance of QS for Skilled Labour work in BHCP
- Mainstream NOT involved **the knowledge & skills** for BHCP
- As a proof of knowledge & Skills Quality Assurance 2.
- Optimum Performance Do it right the first time 3.
- Measurable & comparable criteria on procurement 4.
- Standard of skills set by experts in the sector ensure the 5. competence personnel (Gunthorpe, 2016)

Successful factors on Heritage Skills CSCS Card Pilot Project in UK

- Critical Mass **sufficient no. of labourers** are qualified (75-80%)
- Stated requirements on **tender & contract documents** 2.

RESEARCH METHODOLOGIES

Job Position 1. Comparison Method 2. Stakeholder Interview

6 Success Factors Affecting the Performance of BHCP

1 st Ranking	2 nd Ranking	Success Factors Impactfu		actful
			5 = most, 0 = least	
			Mean	SD
1	1	Competence personnel	4.90	0.38
2	2	Training and recruitment	4.10	0.38
4	3	Shared values	2.40	0.53
3	4	Funds	2.30	1.11
5	5	Effective management system	1.00	0.00
6	6	Continuous care	0.30	0.76
Ranking		ne Built Heritage tion Industry		
1	• -		of the Bu tion Industry	ilt Heritage

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	To evaluate the effectiveness of	To understand the practices of conservation projects in HK and obtain the <u>consensus</u> of the QS for skilled labour	Maintenance Surveyor	HKICON
Aim	different policies		Maintenance Surveyor	ArchSD
	workforce		Council Member	HKIS/BSD
			President	HBCA
5	 Level of nature, target, requirements, 	 2-Stages Policy Delphi Method Conducted 7 	Project Manager	Kam Wui Decoration Limited
Method	Regulating actions, review	interviews with rich experienced experts	Project Manager	LCMA & Associates Ltd.
	period		Director	Ang Studio Ltd.

Organization HKICON	 2 Lack of recognized training & qualification system for workers 3 Relativity Small Size of Market Conservation industry Training and qualification system The qualification assessments can be divided into two aspects: 						
ArchSD	4 Culture Culture Culture Culture Educations for owners						
HKIS/BSD HBCA	5 Lack of Materials						
Kam Wui Decoration Limited	CONCLUSION						
LCMA & Associates Ltd. Ang Studio Ltd.	 Determine the absent and needs of the qualification system for skilled labour The limitations and challenges of the QS can be further studied for developing 						
C	a recognized system Member of VTC Group						