

Preservation and Architectural Heritage

CHALLENGES AND OPPORTUNITIES FOR CRAFTSMANSHIP AND
RESTORATION IN GERMANY

HERMANN KLOS



Dachverband der
Restauratoren
im Handwerk e.V.

Association of Conservators in Craftsmanship


- Founded in 2019 by three leading associations of craft-based restorers:



- Pooling of interests in dialogue with politics, society, and the economy
- Organization and coordination of standards, guidelines, and structural frameworks
- Exchange of knowledge and experience
- Financial and legal foundations

BOARD OF THE DRH





Vocational Training: Certified Restorer in Craftsmanship

- Solid vocational training in one of 19 trades, e.g. mason, carpenter, locksmith, plasterer, etc.
 - 3 years of dual training (school + practical)
 - 3 years as a journeyman
 - 1–2 years of master craftsperson or technician training
 - 1–2 years of advanced qualification as a Certified Restorer in Craftsmanship
 - Today: Master Professional for Restoration in Craftsmanship
- Craftsmanship and repair are closely linked– as long as people work with their hands, they also repair.



Master Professional for restoration in Craftsmanship

Since 2020: Degree at DRQ 7 level, comparable to a university Master's degree in 19 trades, which was developed on the initiative of the German Confederation of Skilled Crafts

Provides knowledge in:

- ...monument protection, monument preservation and monument law
- ...art and cultural history
- ...restoration and repair techniques
- ...materials science
- ...inventory, documentation, presentation

In-service training: **“Journeyman for repair work in monument conservation’ or “Journeyman for restoration work”**



Heritage Preservation and craftsmanship

MILESTONES

1964

Venice Charter: Internationally recognised guideline for all heritage conservation work. Portugal recognised the Charter as a member of ICOMOS.

1975

European Year for the Protection of Monuments: Reflection and new impulses for monument preservation and building culture
Reference Portugal: 1 year after the bloodless fall of the dictatorship, Carnation Revolution

1978

German National Committee for Monument Preservation (DNK): Demand for further training for craftsmen in monument preservation

1979

Burra Charter: Detailed standards for monument conservation measures

1984

Association of German Chambers of Crafts: Introduction of the 'Restorer in Crafts' advanced training examination above the master craftsman level

1994

Association of German Chambers of Crafts: Introduction of the 'Restorer in Crafts' advanced training examination above the master craftsman level

2010

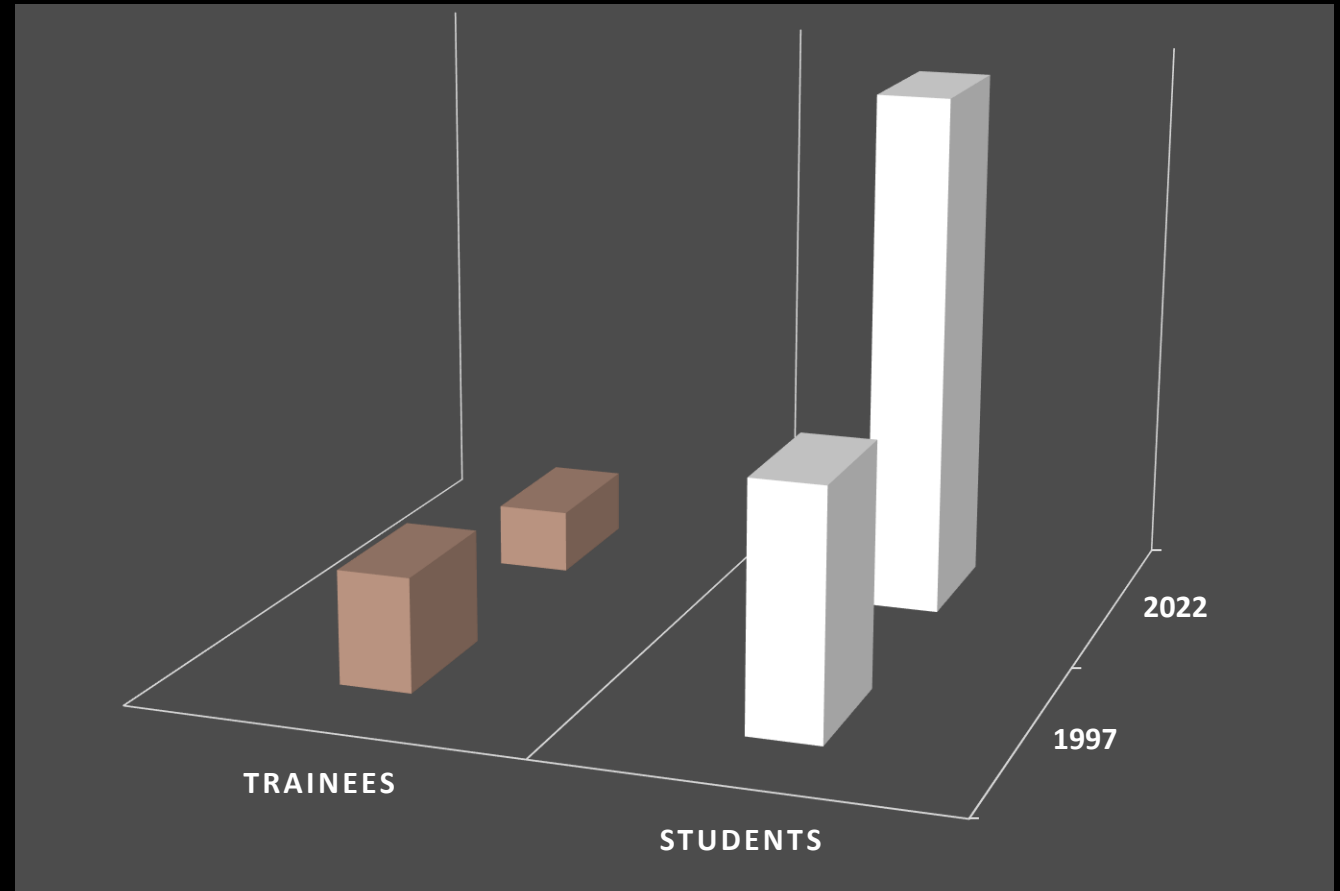
On the initiative of the ZDH: European centres for the preservation of historical monuments founded a community of interest at the 'denkmal' trade fair in Leipzig



Craftsmanship in Germany

QUANTITY AND QUALITY

	1997	2022
Trainees	630 000	350 000
Students	1 350 000	2 900 000



Heritage Preservation needs craftsmanship

For Plato, farmers, craftsmen and tradespeople belonged to the lowest social class.

To this day, there is no equality between physical and mental labour, not even in training.

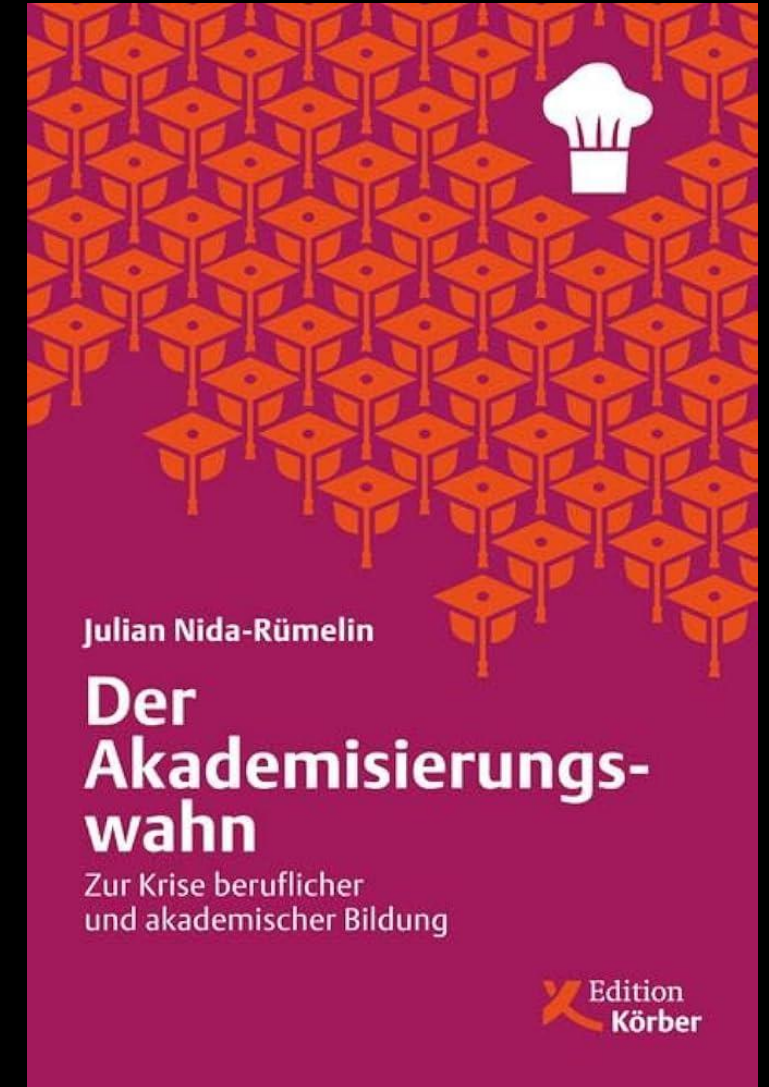
‘A craft such as carpentry [has] become the assembly labour force of the manufacturers of plastic windows.’

1980: Georg Mörsch - Demands of the monument conservator on the trade

‘The craftsman would rather build new than repair.’

1998: Hartwig Schmidt -The ICOMOS repair conference concept

ACADEMISATION MANIA
JULIAN NIDA-RÜMELIN





Compliance with standards

WORKING GROUP OF TRAINING CENTRES FOR CRAFTSMANSHIP REPAIR AND RESTORATION

Tasks and objectives of the ARGE:

- Comparable standards for further training courses leading to the Master Professional qualification
- Joint educational policy representation and public relations work
- Exchange between lecturers and coordination of teaching content
- Initiation and realisation of European projects
- Award of the 'Certified specialist company for monument conservation' trademark





Training and further education

FOCUS: TRADITIONAL CRAFTSMANSHIP

Repositioning the craft and the craftsman by means of a structural model (Marc Ant, philosopher of science, 2021)

Skills orientation for business development:

- ***Tech-Skills (craftsmanship)***: Craft, technical and technological skills - IT, energy, sustainability
- ***Non-Tech-Skills (social-emotional skills)***: Finance, human resources and strategy
- ***Meta-Skills (problem-solving)***: creative thinking, concentration, adaption, collaboration

→ A skills-based perspective für the skilled trades in the digital age



Craftsmanship

IN PRESERVATION AND RESTORATION

1984

Enactment of the first laws for the advanced training examination 'Further training to become a certified restorer in the trade' above the master craftsman level
→ Rejection by the monument preservation authorities

2008

Conference 'Craftsmanship and monument preservation - BLfD'
→ First clear, positive statement on restorers in the skilled trades

2018

Foundation of 'Umbrella organisation of restorers in the trade'

→ So far more than 6000 graduates of the training program



More philosophy at the workbench

Thinking about thinking, doubting, questioning, scrutinising, back to nature - to the essentials, *sapere aude*

JAN RAUE, VDR President until 2022 (Association of Conservators):

‘When restoring a painting, a rare book, a photograph or a piece of furniture, my advice is to choose conservators with a university degree.’



More workbench in the faculties

Doing instead of thinking, practice instead of theory, engaging and involving science/research and teaching with the topic of repair - trying instead of studying

Example project: Walz 4.0

HERMANN KLOS, DRH board member (umbrella organisation of restorers in the trade):

‘For architectural monuments with all their built-in materials, constructions and fittings, I recommend restorers in the craft sector.’



Craftsmanship and monument preservation

BOTH UNLOVED CHILDREN

Photovoltaik auf historischem Dach: Muss die Solaranlage wieder weg?

QUELLE: AGRARHEUTE

Hessische Familie kämpft mit Behörden-Irrsinn – Denkmalschutz nach Hauskauf „einfach verfügt“

QUELLE: FRANKFURTER – NEUE PRESSE

Kirchen als Herausforderung für den Denkmalschutz

QUELLE: PNP

+ Denkmalschutz für Kopfsteinpflaster bremst Veloroute aus

QUELLE: HAMBURGER ABENDBLATT

ROAD BREAKTHROUGH AT THE OBERBURG IN
FAVOUR OF A FEDERAL ROAD





PEOPLE LIKE TO CELEBRATE AND
REPRESENT NEAR MONUMENTS





Monument preservation in Germany

GOVERNMENT, FEDERAL STATES, INITIATIVES

Since 1949, cultural sovereignty has been vested in the federal states

= monument preservation is a state matter

- 16 different state monument protection laws
- Depending on the state, monument protection is organised as a one-, two- or three-tier administration
- Monument offices and authorities are often financially strained and understaffed
- Private organisations step in - promote interest and understanding on the part of citizens, collect donations and award grants
- The state is responsible for laws, regulations, funding programs and tax laws

ORGANIGRAMM DENKMALSCHUTZBEHÖRDEN





Economic power of monument preservation

GERMANY	PORTUGAL
Around 660.000 historical monuments	Around 5.000 registered historical monuments
3 % of the building stock under monument protection	Around 0,15 % of the building stock under monument protection
7.5 billion euros are generated annually in the preservation of historical monuments	
50,000 people employed in the preservation of historic buildings	201.000 Employees working in the cultural and creative industries
The state (federal government, federal states) spends approx. 500 million euros annually on monument protection and maintenance	Wants to provide around 300 million euros by 2025 for monument protection and maintenance, adaptation of historic buildings to climate change and digitalisation
In Germany, architectural monuments are profitable thanks to various subsidies, grants and tax depreciation.	



Appreciation in politics



FEDERAL PRESIDENT F.-W.
STEINMEIER VISITS
HOLZMANUFAKTUR ROTTWEIL

ECONOMICS MINISTER HABECK
AND CHANCELLOR-DESIGNATE
SCHOLZ AT THE HOLZMANUFAKTUR
ROTTWEIL TRADE FAIR STAND





Spectrum of monument preservation

OLDEST RENAISSANCE COFFERED
CEILING IN SOUTHERN GERMANY,
MEßKIRCH CASTLE (1564)



SUKKA (JEWISH HUT-LIKE
STRUCTURE)



Spectrum of monument preservation



CASA BALMELLI,
ROVIO



PRIVATE HOUSE IN
MÄRSTETTEN



ALPSTEINWEG,
KONSTANZ

Spectrum of monument preservation

KALLMORGEN, OFFICE BUILDING
HAMBURG, GERMANY

MOUNTAIN HUT, BRÜN FLUA,
VALENDAS, SWISS





Spectrum of monument preservation in Portugal

TORRE DE BELÉM,
LISBON, 1521

PAVILHÃO DE PORTUGAL,
LISBON, 1998





Volunteering in the preservation of monuments

BEST PRACTICE EXAMPLES FROM ROTTWEIL, RESCUE OF DEMOLITION PROJECTS



FORMER GUNPOWDER FACTORY



UPPER BRINE BATH

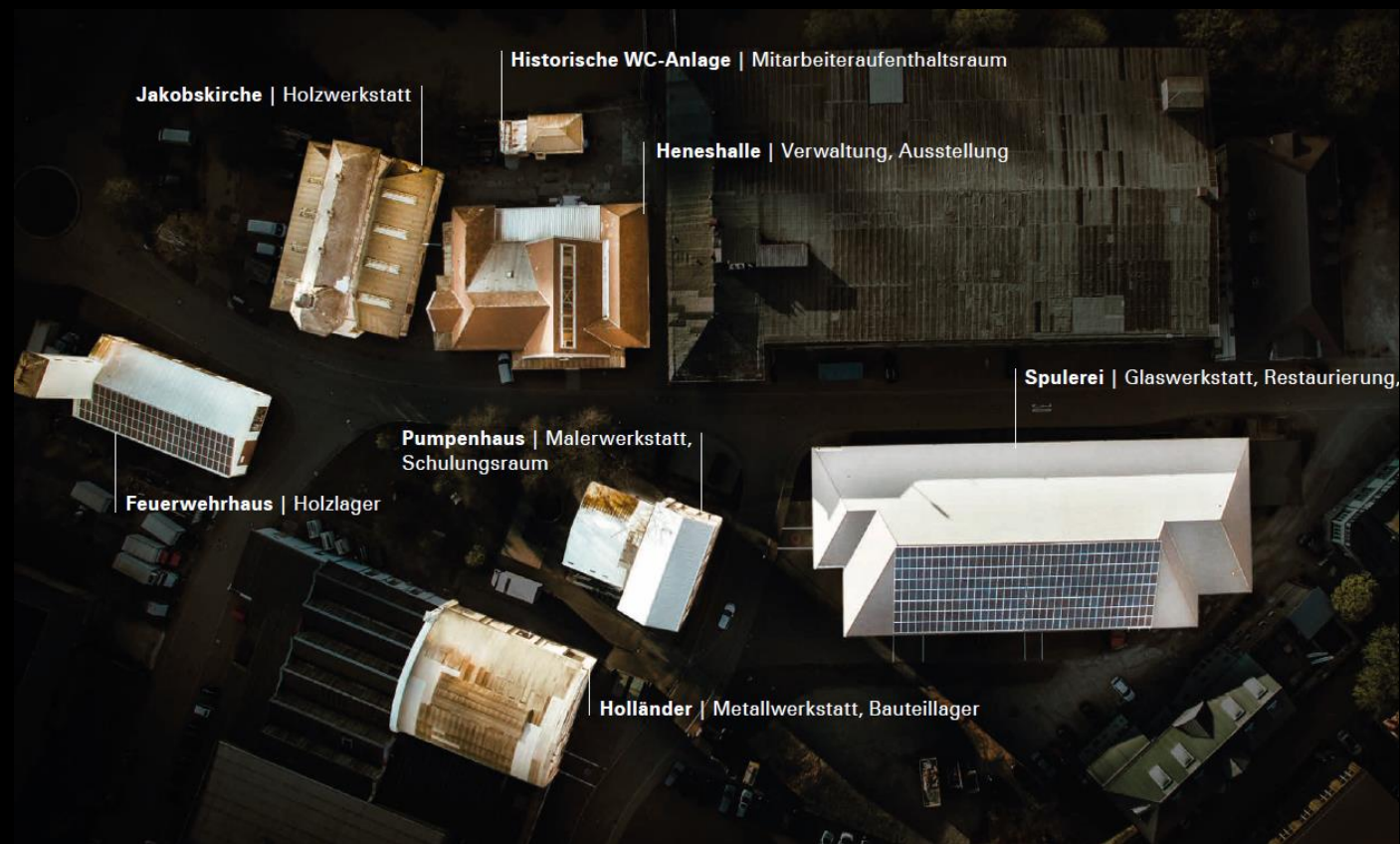


CAPUCHIN MONASTERY



Former gunpowder factory

REVITALISATION AND CONVERSION



CAMPUS OF THE HOLZMANUFAKTUR ROTTWEIL



KRAFTWERK: LOCATION FOR
CONFERENCES AND EVENTS

WORKSHOPS OF THE HOLZMANUFAKTUR
ROTTWEIL



Heritage preservation as a driving force



TEST TOWER FOR LIFTS,
HIGHEST PLATFORM IN GERMANY



UNDER CONSTRUCTION: GERMANY'S LONGEST SUSPENSION BRIDGE



Turnaround in construction

Opportunity for craftsmanship and
listed buildings

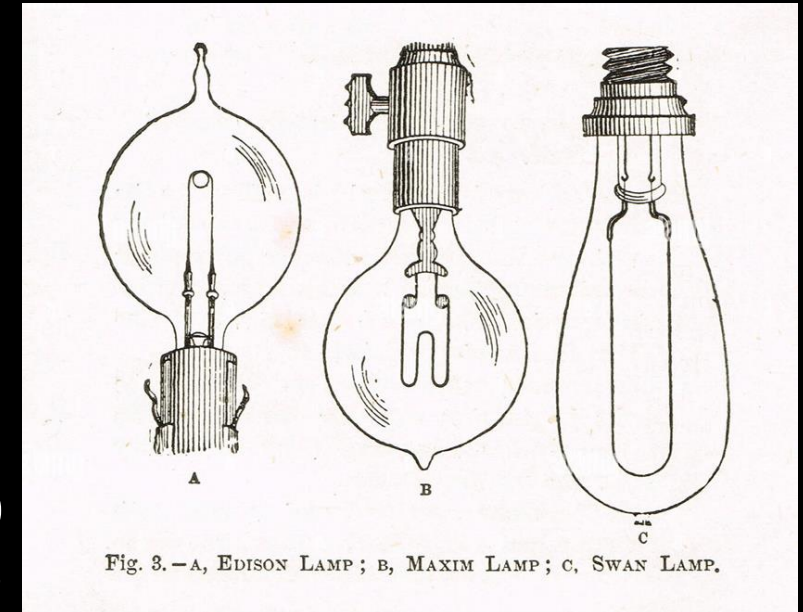


From scarcity and repair to consumerism



Society's development from repair and scarcity to consumerism with planned wear and tear, abundance with a throwaway mentality and the plundering of resources.

The Poebus cartel limits the burning time to 1000 hours → Start of obsolescence in 1925





Turnaround in construction

50%



Turnaround in construction

50% of all climate-damaging emissions are caused by the construction industry.

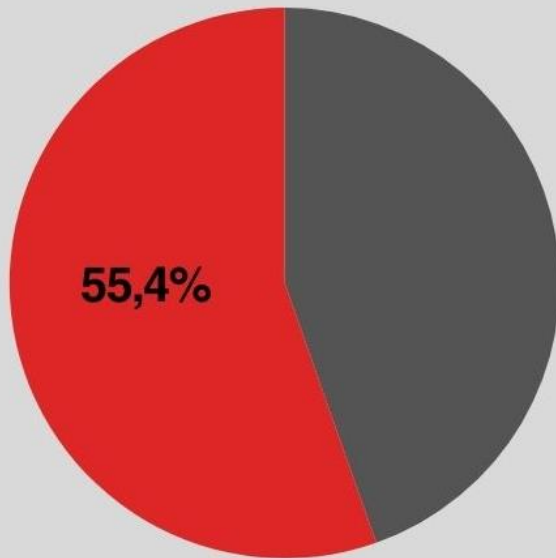
(Werner Sobek)

New construction vs. building on the existing structure

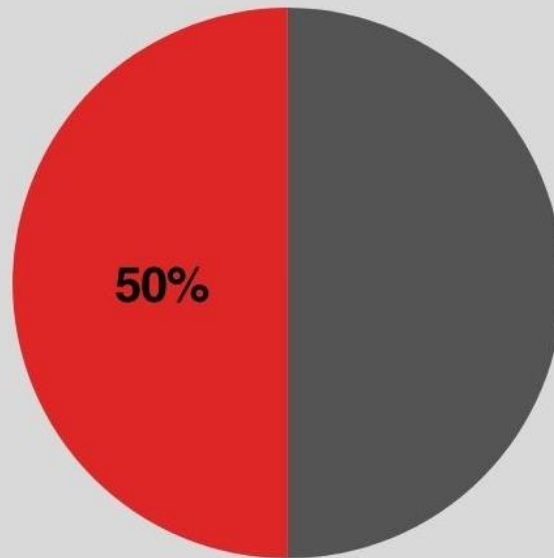
ABREISSEN UND NEUBAUEN KANN JEDER!

Aber retten wir so die Welt?

Anteil Bau- und Abbruchabfälle
des gesamten Abfallaufkommens



Anteil der CO₂-Emissionen
durch die Baubranche



Continuing to build with the existing building = the ideal way to achieve a circular economy

Craftsmen with qualifications in heritage conservation are predestined to work on existing buildings.

Impulses from the preservation of historic buildings provide valuable approaches for sustainable construction and the preservation of existing buildings.



Metamorphosis

HERMANN KLOS HAS BEEN USING THIS TERM FOR 30 YEARS

In a biological context:

The larval organs are shed and the adult organs are made functional.

Significance in relation to the preservation of historic buildings:

Repairs should be carried out in situ and have an in-fracto orientation per se, which allows us to think about alternative scenarios with prospective properties.

→ At ministry level, too, impulses from the preservation of architectural monuments are brought to the wider construction industry



DIE AKTUELLE HERAUSFORDERUNG DES BUNDESAMTS FÜR BAUWESEN UND RAUMORDNUNG (BBR) LAUTET:

„ENERGETISCHE ERTÜCHTIGUNG VON
FENSTERN UNTER WIEDERVERWENDUNG DER
BESTANDSGLÄSER UND -RAHMEN“.

Summary

Young people must be attracted to the field of heritage conservation through attractive training and further education programmes.

- Increase attractiveness
- Facilitate access to professionalisation
- Sensitise young people in the skilled trades to the importance of heritage conservation

