

D 1.1. The Apprenticeship System in AustriaA National Summary

Apprenticeship: "systematic, long-term training alternating periods at the workplace and in an education institution or training centre [...] The employer assumes responsibility for providing the trainee with training leading to a specific occupation." (CEDEFOP - Glossary)

Objectives of D1.1:

To collecting documents or pieces of information directly connected (or potentially transferable) to **apprenticeship models** or perspectives that you can find in your own country. **Models of collaboration** between different sectors or types of institutions where apprenticeship activities have been possible should be useful for the project.

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1. Initial Information

1.1. Apprenticeship schemes at DUK and Senate of Economy

Danube University Krems (DUK): There is no apprenticeship scheme at Danube University, but the university provides study programmes for continuing education, which include practice-based, competence-based and activity-based learning. Students reflect their professional practice and challenges to acquire new professional skills and competences. All study-programs are designed for full-time working students and are based on blended learning, so learning and working at the same time are not a contradiction. It is often the case, that employers cover the costs for Danube University's study programs.

Danube University provides <u>study programs with professional licences</u>, e.g. "Supervision und Coaching", or "Psychosomatische Medizin" which require not only practice-related activities like study projects, but also internships. The academic directors of these study programmes probably would know more about apprenticeships at Danube University, but also the academic directors within the Department of Interactive Media and Educational Technologies, which are supporting students to bring in practical experience or to develop study programmes specifically for certain employers.¹

SENAT/lehrlingspower.at: Senat der Wirtschaft and lehrlingspower.at currently does not train apprentices. As an independent network of companies, it is involved in apprenticeship topics by consulting and lobbying for companies with apprentices. Especially in the area of SMEs the Senat supports knowledge transfer through the initiative "Mittelstands-Allianz", together with lehrlingspower.at, Austrians first independent network for apprenticing companies. Robert Frasch, founder of lehrlingspower.at, is also editor in chief of the webbased Platform www.ausbilden.co.at.

1.2. Apprenticeships in Austrian Higher Education

In Austrian Higher Education, there are currently three ways how practical experiences at the workplace are integrated into higher education study programs:

Dual-study programs: Dual-studies are study programs which were developed in
cooperation with enterprises (usually medium to large-sized), providing alternating phases
of practice (at the workplace) and theory (at the higher education institution). At the
moment, only universities of applied sciences provide dual-study programs. A trend of
emerging dual-study programs in Austrian Higher Education started about 2 years ago. Since
then more and more dual-study program have been developed.²

² Dual studieren in Österreich (2017): Warum dual studieren? Retrieved from http://www.dualstudieren.at/dual-studieren/warum-dual-studieren/, 13th of November 2017





¹ Danube University Krems (n.D.): About. Retrieved from https://www.donau-uni.ac.at/en/universitaet/index.php?URL=/en/universitaet/ueberuns, 13th of November 2017



- Work-study-programs: Work-study-programs usually are providing lectures on weekends and a blended learning system, so it is possible also for students in full-time jobs to study next to working. Usually, work-study-programs are provided by universities of applied sciences and curricula are connected to the prior learning and practical experiences of students.³
- Continuing education study programs: These kind of study programs allow validation of prior learning for admission in Austria. Danube University is one of the leading provider of continuing education study programs in Austria and in Europe and basically every academic director is involved in integrating practical experiences of students into the study programme. This mostly happens through project work and reflections, but also via internships, through blended learning and lectures on the weekends. Danube University was established 20 years ago and has been providing continuing education study programs since then.⁴

1.2.1. A Review of Dual-Study Programs in Austria

Throughout our research, we found seven providers of dual-study programs in Austria:

- 1. IMC Fachhochschule Krems
- 2. Paracelsus Medizinische Privatuniversität
- 3. FH Joanneum
- 4. FH Vorarlberg
- 5. FH St. Pölten
- 6. FH Oberösterreich
- 7. FH Technikum Wien

All in all, we found six dual-study programs on Bachelor-level and 3 dual-study programs on Master-level:

Dual Study Program	Mode	Companies	Assessment	Certificatio n	EQF- Level	Link
IMC Krems	Dual study: 6 weeks of full time study/semester,	Peek & Cloppenburg	Case Studies, Project Work, reflecting how	BA, 180 ECTS	6	https://www.fh- krems.ac.at/de/studie ren/bachelor/unterne

³ 3S Unternehmensberatung (n.D.): Berufsbegleitende Aus- und Weiterbildungen. Chancen und Herausforderungen. Retrieved from: http://www.berufsbegleitend.at/, 13th of November 2017

⁴ Danube University Krems (n.D.): About. Retrieved from https://www.donau-uni.ac.at/en/universitaet/index.php?URL=/en/universitaet/ueberuns, 13th of November 2017







Entrepreneurship and eBusiness Paracelsus Medical Private University Healthcare-Study	rest of the time working + internships in other P&C departments, similar traineeship Fees: Paid by P&C Fulltime study, competence-based, internships Fees: 1760€/year	(application via P&C) Several Hospitals (application via one of the hospitals)	theory could be applied in daily work No info found online	BScN, 210ECT + VET Diploma for healtcare	6	hmensfuehrung-und- e-business- management- berufsbegleitend- pc/studienplan/ http://www.pmu.ac.a t/2in1.html
FH Joanneum	Alternating: 3	Admonter	Project Work,	BSc	6, 7	https://www.fh-
Bachelor: Production and Organisation Master: Engineering and Production Management Product- and Processdevelopment	months practice, 3 months theory Employment from 3rd to 6th Semester, similar traineeship Master1: Longer Phases of Practice (up to 5 months) Master 2: Blocked theory 6-9weeks, eLearning	AL-KO Alpla Andritz AG Anton Paar Atomic AVL BMW Böhler Bosch Brau Union Knapp Magna Mondi Palfinger Post Logistikcenter Saubermacher Siemens SSI-Schäfer-Peem VOEST Alpine	Work in Labs, written exams, documentation of work experiences, reflection of practice report	(180ECTS) MSc. (120ECTS)		ioanneum.at/produkti onstechnik/bachelor/ https://www.fh- ioanneum.at/enginee ring-and-production- management/master/ https://www.fh- ioanneum.at/lebensm ittel-produkt-und- prozessentwicklung/ master/
FH Vorarlberg BSc. Electrical engineering	Dual studies and part-time/work-study programms Dual phase from 3rd Semester on 4 practice phases (all in all 12 months), practice combined with bachelor thesis Blended learning No fees, companies give	http://www.fh v.at/studium/t echnik/elektro technik-dual- bsc/partnerun ternehmen/	Written exams, lab reports, project work, project report, portfolio- exams, working/learnin g diary, case studies, presentations	BSc (180ECTS)	6,7	http://www.fhv.at/stu dium/allgemeine- informationen/gesam tuebersicht- studienangebot/beruf sbegleitende-und- duale-studiengaenge/







						erprises in Europe
	students time for studying 4x3 months blocked					
FH St. Pölten BSc. Smart Engineering of Production Technologies and Processes	Practice/theorie phases Fees: 380€/Semester	https://www.f hstp.ac.at/de/ studium- weiterbildung/ medien- digitale- technologien/s mart- engineering/p artnerunterne hmen	Project work and documentation, reports,	BSc (180ECTS)	6	https://www.fhstp.ac. at/de/studium- weiterbildung/berufs begleitende-studien https://www.fhstp.ac. at/de/studium- weiterbildung/medien -digitale- technologien/smart- engineering
FH Oberösterreich Master Automotive Mechatronics and Management	Part-time work during studies 18 months working fulltime 2nd to 4th semester, project work No courses from mondays to tuesdays from 2nd semester onwards	https://www.f h- ooe.at/en/wel S- campus/studie ngaenge/mast er/automotive -mechatronics- and- management/i ndustry- cooperation/	Project work and documentation, written exams	MSc 120ECTS	7	https://www.fh- ooe.at/en/wels- campus/studiengaeng e/master/automotive- mechatronics-and- management/study/q ualification/
FH Technikum Bachelor in Informatics	Practice phases in company Application at selected companies who are working with FH,	https://www.t echnikum- wien.at/duales -studium- bachelor- studiengang- informatik	Written exams, reflection, oral exams, project work	BSc (180ECTS)	6	https://www.techniku m-wien.at/duales- studium-bachelor- studiengang- informatik/

2. Structure and governance

2.1. Typology of stakeholders

2.1.1. Public Bodies responsible for Apprenticeship-Schemes in Austria

The legal aspects of lower-level apprenticeships (NQF level 4-6) in Austria are covered by 3 ministries:

- Ministry of Science, Research and Economy (BMWFW): Responsible for all topics related to companies, which provide apprenticeships
- Ministry of Education (BMB): Responsible for all topics related to vocational schools.







 Ministry of Labour, Social Affairs and Consumer Protection: Responsible for all topics related to employees. It also funded the web platform "<u>Ausbildung bis 18</u>", which promotes apprenticeships among teenagers up to 18 years old.

Furthermore, also the Chamber of Commerce is an official stakeholder. General information is available at <u>Chambers of Commerce</u>: The Chamber of Commerce's structure consists of on a national-wide organisation, as well as of separate departments for each federal state, which are almost independently organized. They are divided into district chambers and branch chambers which even provide their own information structure. These chambers provide mostly information about legal issues.

An initiative of the Austrian Chamber of Commerce is "SkillsAustria", which is organizing the vocational skills competitions AustrianSkills, EuroSkills and WorldSkills. SkillsAustria is a part of the national Chamber of Commerce, whereas the Styrian Chamber of Commerce is responsible for EuroSkills 2020 in Graz. These distributed responsibilities and competences are an example of how complex the apprenticeship system in Austria is. There are various stakeholders, which have different responsibilities and competences.

2.1.2. Other Regional and Country-Wide Stakeholders providing advice and information regarding Apprenticeships

Besides the above mentioned structure, there are lots of other organizations with relation to lower-level apprenticeships (NQF level 4-6) in Austria:

- Institut für Bildungsforschung der Wirtschaft: Documents, studies and learning material
- <u>Chamber of Commerce Berufsinformationszentrum der Wiener Wirtschaft:</u> Information for apprentices
- Network of companies training apprentices in Tyrol
- Network of companies in Upper Austria (Industry)
- Chamber of Labour
- Wirtschaftsförderungsinstitut (WIFI): <u>Job portal for training on national level</u> (regional there are lots of companies and/or individual trainers):
- Berufsförderungsinstitut (BFI): VET provider







2.1.3. Institution/organisations which are actively involved in apprenticeships

Dual study programs are usually provided by Universities of Applied Sciences in cooperation with companies (usually medium to large-sized companies, see table above at "1.2.1 A Review of Dual-Study Programs in Austria").

Regarding **lower-level apprenticeships**, two major organisations are involved: Companies and vocational schools. In addition to these two, there are a lot of stakeholders involved, too. The major ones on the official level: Government with different ministries, labor unions, chamber of commerce and the industrial association.

There are also several NGOs engaging in lower-level apprenticeships: training companies, job market platforms, employer branding experts, fair organizers (there are lots of job fairs, some of them specialised only on apprenticeships).

3. Apprenticeship Programme Development and Stakeholder Involvement

3.1. Promotion of Apprenticeship Programmes in Austria

In **higher education**, usually higher education institutions and companies are involved in promoting their educational programs. The University of Applied Sciences Vorarlberg funded the web-platform "Dual studieren in Österreich".

At the moment, there are many programmes to promote **lower-level apprenticeships** in Austria and to motivate companies to train apprentices. This is especially motivated by the decreasing number of apprentices. One reason for this decrease is that companies cannot find suitable apprentices, who can meet their requirements. Furthermore, there is a trend that many students stay in school and go to university afterwards instead of starting an apprenticeship.

Most of these promotion programs are initiated by the business sector, companies or institutions like the chambers of commerce or "Industriellenvereinigung" (industrial association). Furthermore, there are promotion programs for middle to large-sized companies. There are various funding schemes in Austria, listing all of them would go beyond the scope of this summary.

In Austria, there are 3 major web portals, focused on job ads for apprenticeships only:

- www.lehrlingsportal.at
- www.lehrberuf.info
- www.lehrstellenportal.at

3.2. The Standard Design of Apprenticeship programmes in Austria

In Austria, there are three ways how schemes similar to apprenticeships are implemented in **higher** education:







- **Dual studies** (still rare and rather new): Employers and universities are working together, alternating practice and study phases
- Work-study-programs: Offered at many FHs (universities of applied sciences), study times are on fridays, saturdays, internships, practice-orientated education, blended learning, study could also be done without the employer's consent.
- Continuing education study-programs: Continuing education study-programs are including most features from work-study-programs mentioned above, but are often much more specialized and focused on further education.

For higher education, there is the <u>AQ Austria</u>, which is regularly checking the quality of HE institutions and their study-programs.

In Austria, there is a tradition of dual education system for **lower-level apprenticeships**. Apprenticeships combine phases of working in the companies and learning in vocational schools ("Berufsschule"). The apprenticeship usually lasts three to four years, varying from profession to profession. In Vienna, apprentices attend vocational schools approximately 1 day per week. If apprentices come from rural areas, vocational school times are usually blocked to a period of 10 weeks per year. Apprenticeships end with a final exam, the "Lehrabschlussprüfung". It is an educational audit done by the chamber of commerce. It assesses both, theoretical knowledge and practical skills.

Quality control is a topic which has been recently discussed in Austria. The Chamber of Commerce claims that everything works fine and furthermore, Austria has been among the best performing countries at the WorldSkills or EuroSkills vocational training competitions in the last years. Nevertheless, many companies wish change and an improvement of the apprenticeship system in Austria. Assessment methods need to be modernized, but due to various stakeholders in the Austrian apprenticeship system, changes are taking a lot time and effort.

3.3. Setting up Apprenticeship Programmes

Limited material is available from other dual study programs in Austrian **higher education**, but Danube University is experienced in adult education and continuing education. Curricula at Danube University are practice- and competence-based. Based on these experiences, it would not be a problem to set up an apprenticeship program, but it needs to be considered, that DUK's target group consists of adult students. DUK also only provides master-programs and certified, short-cycle study programs, no bachelor-programs.

Regarding **lower-level apprenticeships**, a lot of helpful material is provided by the local chamber of commerce. Latter even provide coaching sessions for companies who want employ and train apprentices. The <u>IBW (Institut für Bildungsforschung)</u>, a institute close to the chamber of commerce and the Austrian Government, also provides a lot of material for employers. Unfortunately, these guidance material is not used very widely by companies and many companies (especially SMEs) complain about not getting enough guidance regarding apprenticeships.





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Next to the official partners for providing information about apprenticeships listed above, there are many associations and networks like lehrlingspower.at, Ausbilderforum Tyrol or Ausbilderverbund Upper Austria who give advice to companies and provide information.

3.4. Assessment and Certification of Apprenticeship Programs

At **higher education** institutions providing dual study programs assessment methods are often based on project documentation, reflection, lab works, written and oral exams or portfolio assessment (see table above at "1.2.1 A Review of Dual-Study Programs in Austria").

At Danube University Krems, students can receive a certificate, an academic title and also professional licences. Assessment are usually based on internships reports, project documentation, scientific literature research, oral or written exam, etc.⁵

All **lower-level apprenticeships** end with a certification called "Lehrabschlusszeugnis", issued by chamber of commerce. This exam consist of an assessment of practical skills (practical demonstration of skills) and theoretical knowledge. This certification allows students to work in their profession. After "Lehrabschlusszeugnis", student are allowed to start a "Meister"-training, which means "Master in profession", not to confuse with a Masters degree in higher education. Passing the "Meister"-Exam allows students to open their own companies in regulated professions.

3.5. Number of Students in Apprenticeship Programmes Higher Education

Usually, 15-30 persons are admitted per academic year in a dual study program (see dual study program list above). There are much more students in work-study-programs and in continuing-education study programs. At Danube University, around 8862 people are currently studying in continuing education study programmes.⁶

Vocational Education

Regarding lower-level apprenticeships, there are approx. 28.000 companies, which are currently training apprentices in Austria.

⁶ Danube University (2017): About. Retrieved from: https://www.donau-uni.ac.at/en/universitaet/index.php?URL=/en/universitaet/ueberuns, 5th of November, 2017





⁵ DUK (2015): Curriculum Psychosomatische Medizin. Retrieved from: https://www.donau-uni.ac.at/imperia/md/content/department/psymed/broschuere/psy2_broschuere_20150130.pdf, 4th of November 2017.

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In 2016, 106.950 people were employed in lower-level apprenticeships. This number has been decreasing in the last years (in 1980 there were more 194.000 apprentices in Austria). The decrease is due to demographic changes in Austria and the lack of attractiveness for young people.⁷

3.6. Which legislation do you have in place in your country/region/institution about Apprenticeships?

Lower-level apprenticeships in general are regulated by law through <u>Berufsausbildungsgesetz (BAG)</u>. Details for the various professions are regulated by the Ministry of Science, Research and Economy through <u>Ausbildungsordnung</u>.

Higher-level apprenticeships are provided by higher education institutions, which are bound to <u>Hochschulgesetz</u>. Furthermore, depending on the study-programs, there are also other laws applicable, for example there are <u>legal provisions for the Bachelor of Nursing</u> in Austria. Furthermore, there are <u>legal provision for universities of applied sciences</u>, too.

3.7. Funding of Apprenticeship Programmes

In dual study-programs in **higher education** are usually funded by the state, especially if they are public institutions. At many higher education institutions there are no fees to pay, a few institutions collect a fee of 363,36€ each semester.⁸ At Danube University Krems, students have to pay fees for studying, the fees are varying from study program to study program.⁹

For **lower-level apprenticeships**, the Austrian government and its Ministry of Education is responsible for funding vocational schools in Austria¹⁰. Furthermore, the Ministry of Education, the Ministry of Research, Science and Economy, the national Chamber of Commerce and the Chamber of Labour are responsible for the curricula in vocational schools.

The vocational school budget is a part of the general budget of schools in Austria. The total cost per student for vocational schools/trade school in the year of 2013 was 14 201€. ¹¹

http://www.statistik.at/web_de/services/publikationen/5/index.html?includePage=detailedView§ionName=Bildung%2C+Kultur&publd=508, 4th of November 2017







⁷ WKO (2017): Lehrlingsstatistik.Retrieved from: https://www.wko.at/service/zahlen-daten-fakten/daten-lehrlingsstatistik.html, 6th of November, 2016

⁸ FH Guide (2017): Study Fees. Retrieved from http://www.fachhochschulen.ac.at/en/fh magazine/2008/study fees, 4th of November 2017

⁹ DUK (2016), retrieved from https://www.donau-uni.ac.at/en/studium/faq/index.php#info, 3rd of November 2017

¹⁰ BMB (2017), retrieved from: https://www.bmb.gv.at/schulen/bw/bbs/berufsschulen.html, 5th of November 2017

¹¹ Statisitk Austria (2015): Bildung in Zahlen 2013/14 - Schlüsselindikatoren und Analysen. Vienna. Retrieved from:

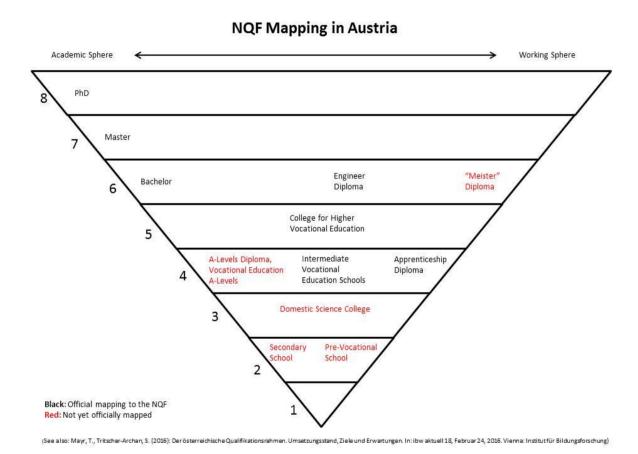


When it comes to practical training in companies, the employer is financially responsible for the apprenticeship. There is funding provided by the Ministry of Science, Research and Economy, but is has been limited to 169 Mio. € per year.

3.8. Level of Education of Austrian Apprenticeship Schemes

In **higher education**, the dual study programs usually lead to a Bachelors or Masters degree (Level 6 to 7 in the Austrian Qualification Framework¹²).

The structure of the Austrian National Qualifications Framework (NQF) is very similar to the European Qualifications Framework (EQF). The process of mapping qualifications is still ongoing. The visualisation below which qualifications have been officially mapped already and which ones haven't been mapped¹³:



¹³ Mayr, T., Tritscher-Archan, S. (2016): Der österreichische Qualifikationsrahmen. Umsetzungsstand, Ziele und Erwartungen. In: ibw aktuell 18, Februar 24, 2016. Vienna: Institut für Bildungsforschung







¹² WKO (2017): NQR - Nationaler Qualifikationsrahmen. Umsetzung, Ziele und Erwartungen. Vienna. Retrieved from: https://news.wko.at/news/oesterreich/NQR---Nationaler-Qualifikationsrahmen.html, 13th of November, 2017



3.9. Subjects/Professional Areas/Economic Fields Most Common in Apprenticeship Programmes

Dual study programs in Austrian Higher Education are most common in following disciplines: Technical studies/engineering/informatics, business administration and health care.

In lower-level apprenticeships, there are 10 areas which are most popular by the number of apprentices. From a more differentiated perspective, many of these professions do not require much prior learning from school or are connected to large companies or business sectors in Austria. A lack of interest and attractiveness of professions in the field of SMEs is resulting into a decreasing number of apprentices in this area.

For male apprentices following professions are the most popular ones: Metal engineering, electrical engineering, motor vehicle technology, retail trade, plumbing and fitting, bricklayer, carpenter, cook, mechatronics, information technology.¹⁴

For female apprentices following professions are the most popular ones: Retail trade, office clerk, hair stylist, cook, waitress, pharmaceutical assistance, administration assistance, hotel assistance, metal engineering, pastry chef.¹⁵

From a regional point of view, the highest popularity of apprenticeships is in the western region of Austria (Vorarlberg, Tirol), wheresas in the eastern regions and big cities like Vienna, the popularity of apprenticeships is lower.¹⁶

¹⁶IBW (2017): Lehrlingsausbildung im Überblick 2017. Strukturdaten, Trends und Perspektiven. Vienna. Retrieved from: https://www.ibw.at/resource/download/1577/ibw-forschungsbericht-190,pdf, p. 32







¹⁴ WKO (2017): Die 10 häufigesten Lehrberufe bei Buben 2016. Vienna. Retrieved from: http://wko.at/statistik/wgraf/2017 03 Lehrlinge Burschen 2016.pdf, 13th of November, 2017

¹⁵ WKO (2017): Die 10 häufigsten Lehrberufe bei Mädchen 2016. Vienna. Retrieved from: http://wko.at/statistik/wgraf/2017 02 Lehrlinge M%C3%A4dchen 2016.pdf, 13th of November, 2017

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3S Unternehmensberatung (n.D.): Berufsbegleitende Aus- und Weiterbildungen. Chancen und Herausforderungen. Retrieved from: http://www.berufsbegleitend.at/, 13th of November 2017

BMB (2017), retrieved from: https://www.bmb.gv.at/schulen/bw/bbs/berufsschulen.html, 5th of November 2017

Danube University Krems (n.D.): About. Retrieved from https://www.donau-uni.ac.at/en/universitaet/index.php?URL=/en/universitaet/ueberuns, 13th of November 2017

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http://www.fachhochschulen.ac.at/en/fh_magazine/2008/study_fees, 4th of November 2017, 5th of November 2017

Mayr, T., Tritscher-Archan, S. (2016): Der österreichische Qualifikationsrahmen. Umsetzungsstand, Ziele und Erwartungen. In: ibw aktuell 18, Februar 24, 2016. Vienna: Institut für Bildungsforschung

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http://www.statistik.at/web_de/services/publikationen/5/index.html?includePage=detailedView&s ectionName=Bildung%2C+Kultur&publd=508, 4th of November 2017

WKO (2017): Lehrlingsstatistik. Retrieved from: https://www.wko.at/service/zahlen-daten-daten-daten-daten-daten-lehrlingsstatistik.html, 6th of November, 2016

WKO (2017): NQR - Nationaler Qualifikationsrahmen. Umsetzung, Ziele und Erwartungen. Vienna. Retrieved from: https://news.wko.at/news/oesterreich/NQR---Nationaler-Qualifikationsrahmen.html, 13th of November, 2017



