

Economic Commission for Europe**Inland Transport Committee**

English

Working Party on the Transport of Dangerous Goods

10 January 2017

Joint Meeting of Experts on the Regulations annexed to the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) (ADN Safety Committee)**Thirtieth session**

Geneva, 23–27 January 2017

Item 4 (d) of the provisional agenda

**Implementation of the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN):
training of experts**

**Summary document for the catalogue of questions
"Chemicals"****Transmitted by the Central Commission for the Navigation of the Rhine**

1. The informal working group on the training of experts was mandated by the ADN Safety Committee to revise and adapt the catalogue of questions to the 2017 edition of ADN. At the end of this work, a catalogue of questions in three parts "General", "Gas" and "Chemicals" has been prepared, which can be found respectively in documents ECE/TRANS/WP.15/AC.2/2017/1, ECE/TRANS/WP.15/AC.2/2017/2 and ECE/TRANS/WP.15/AC.2/2017/3
2. In order to document these changes, the informal working group provides in the annex to the present document a summary of the status of work on the catalogue of questions.
3. These summaries present the correct response to each question, the reference in the ADN (source) and the date that the question was deleted or added.
4. The informal working group on the training of experts
 - (a) Invites the ADN Safety Committee to take note of the summaries concerning the status of work on the catalogue of questions and
 - (b) Recommends that they be published on the websites of the UNECE and CCNR.

Number	Source	Response	Remarks	Dealt with on
Knowledge of physics and chemistry				
Objective 1				
331 01.0-01	Basic general knowledge	B		06.06.2011
331 01.0-02	Basic general knowledge	B		06.06.2011
331 01.0-03	Basic general knowledge	C		06.06.2011
331 01.0-04	Basic general knowledge	D		06.06.2011
331 01.0-05	Basic general knowledge	B		06.06.2011
331 01.0-06	Basic general knowledge	A		06.06.2011
331 01.0-07	Basic general knowledge	B		06.06.2011
331 01.0-08	Basic general knowledge	C		
Objective 2				
331 02.0-01	Basic knowledge of physics	C		06.06.2011
331 02.0-02	Basic knowledge of physics	B		06.06.2011
331 02.0-03	Basic knowledge of physics	D		06.06.2011
331 02.0-04	Basic knowledge of physics	A		30.09.2014
331 02.0-05	Basic knowledge of physics	C		06.06.2011
331 02.0-06	Basic knowledge of physics	C		06.06.2011
331 02.0-07	Basic knowledge of physics	B		06.06.2011
331 02.0-08	Basic knowledge of physics	A		06.06.2011
331 02.0-09	Basic knowledge of physics	A		06.06.2011
331 02.0-10	Basic knowledge of physics	C		06.06.2011
331 02.0-11	Basic knowledge of physics	B		06.06.2011

Number	Source	Response	Remarks	Dealt with on
331 02.0-12	Basic knowledge of physics	B		13.03.2012
331 02.0-13	Basic knowledge of physics	C		06.06.2011
331 02.0-14	Basic knowledge of physics	B		06.06.2011
331 02.0-15	Basic knowledge of physics	C		06.06.2011
331 02.0-16	Basic knowledge of physics	D		06.06.2011
331 02.0-17	Basic knowledge of physics	B		06.06.2011
331 02.0-18	Basic knowledge of physics	A		06.06.2011
331 02.0-19	Basic knowledge of physics	D		06.06.2011
331 02.0-20	Basic knowledge of physics	D		06.06.2011
331 02.0-21	Basic knowledge of physics	B		28.09.2016
331 02.0-22	Basic knowledge of physics	C		30.09.2014
331 02.0-23	Basic knowledge of physics	C		30.09.2014
Objective 3				
331 03.0-01	Basic knowledge of physics	C		06.06.2011
331 03.0-02	Basic knowledge of physics	B		06.06.2011
331 03.0-03	Basic knowledge of physics	B		13.03.2012
331 03.0-04	Basic knowledge of physics	A		13.03.2012
331 03.0-05	Basic knowledge of physics	D		06.06.2011
331 03.0-06			deleted (2012)	13.03.2012
331 03.0-07	Basic knowledge of physics	C		06.06.2011
331 03.0-08	Basic knowledge of physics	A		06.06.2011
331 03.0-09	Basic knowledge of physics	B		06.06.2011
331 03.0-10	Basic knowledge of physics	C		06.06.2011
331 03.0-11	Basic knowledge of chemistry	A		30.09.2014

Number	Source	Response	Remarks	Dealt with on
Objective 4				
331 04.0-01	Basic knowledge of substances	B		30.09.2014
331 04.0-02	Basic knowledge of substances	B		30.09.2014
331 04.0-03	Basic knowledge of substances	C		13.03.2012
331 04.0-04	Basic knowledge of substances	B		06.06.2011
331 04.0-05	Basic knowledge of substances	C		06.06.2011
331 04.0-06	Basic knowledge of substances	A		06.06.2011
331 04.0-07	Basic knowledge of substances	C		06.06.2011
331 04.0-08	Basic knowledge of substances	B		30.09.2014
Objective 5				
331 05.0-01	Basic knowledge of substances – $\rho = m/V$	B		06.06.2011
331 05.0-02	Basic knowledge of substances – $\rho = m/V$	C		13.03.2012
331 05.0-03	Basic knowledge of substances – $\rho = m/V$	A		06.06.2011
331 05.0-04	Basic knowledge of substances – $\rho = m/V$	B		06.06.2011
331 05.0-05	Basic knowledge of substances – $\rho = m/V$	C		06.06.2011
331 05.0-06	Basic knowledge of substances – $\rho = m/V$	B		06.06.2011
331 05.0-07	Basic knowledge of substances – $\rho = m/V$	B		13.03.2012
331 05.0-08	Basic knowledge of substances – $\rho = m/V$	A		06.06.2011
331 05.0-09	Basic knowledge of substances – $\rho = m/V$	C		13.03.2012
331 05.0-10	Basic knowledge of substances – $\rho = m/V$	A		30.09.2014
331 05.0-11	Basic knowledge of substances – $\rho = m/V$	A		06.06.2011
331 05.0-12	Basic knowledge of substances – $\rho = m/V$	C		06.06.2011
331 05.0-13	Basic knowledge of substances – $\rho = m/V$	A		06.06.2011
331 05.0-14	Basic knowledge of substances – $\rho = m/V$	C		06.06.2011

Number	Source	Response	Remarks	Dealt with on
331 05.0-15	Basic knowledge of substances – $\rho = m/V$	C		06.06.2011
331 05.0-16	Basic knowledge of substances – $\rho = m/V$	B		06.06.2011
Objective 6				
331 06.0-01	Basic knowledge of chemistry	B		06.06.2011
331 06.0-02	Basic knowledge of chemistry	D		06.06.2011
331 06.0-03	Basic knowledge of chemistry	C		06.06.2011
331 06.0-04	Basic knowledge of chemistry	C		06.06.2011
331 06.0-05	Basic knowledge of chemistry	A		06.06.2011
331 06.0-06	Basic knowledge of chemistry	B		28.09.2016
331 06.0-07	Basic knowledge of chemistry	D		06.06.2011
331 06.0-08	Basic knowledge of chemistry	B		06.06.2011
Objective 7				
331 07.0-01	Basic knowledge of chemistry	A		06.06.2011
331 07.0-02	Basic knowledge of chemistry	B		06.06.2011
331 07.0-03	Basic knowledge of chemistry	D		13.03.2012
331 07.0-04	Basic knowledge of chemistry	B		06.06.2011
331 07.0-05	Basic knowledge of chemistry	C		06.06.2011
331 07.0-06	Basic knowledge of chemistry	A		06.06.2011
331 07.0-07	Basic knowledge of chemistry	A		30.09.2014
331 07.0-08	Basic knowledge of chemistry	A		06.06.2011
331 07.0-09	Basic knowledge of chemistry	B		30.09.2014
331 07.0-10	Basic knowledge of chemistry	B		06.06.2011
331 07.0-11	Basic knowledge of chemistry	D		06.06.2011

Number	Source	Response	Remarks	Dealt with on
331 07.0-12	Basic knowledge of chemistry	B		06.06.2011
331 07.0-13	Basic knowledge of chemistry	A		06.06.2011
331 07.0-14	Basic knowledge of chemistry	B		06.06.2011
331 07.0-15	Basic knowledge	A		28.09.2016
Objective 8				
331 08.0-01	Basic knowledge of chemistry	B		06.06.2011
331 08.0-02	Basic knowledge of chemistry	A		06.06.2011
331 08.0-03	Basic knowledge of chemistry	A		06.06.2011
331 08.0-04	Basic knowledge of chemistry	A		06.06.2011
331 08.0-05	Basic knowledge of chemistry	C		06.06.2011
331 08.0-06	Basic knowledge of chemistry	B		06.06.2011
331 08.0-07	Basic knowledge	D		06.06.2011
331 08.0-08	Basic knowledge of chemistry	A		06.06.2011
331 08.0-09	Basic knowledge of chemistry	C		06.06.2011
331 08.0-10	Basic knowledge of chemistry	D		06.06.2011
331 08.0-11	Basic knowledge of chemistry	C		06.06.2011
331 08.0-12	Basic knowledge of chemistry	B		06.06.2011
331 08.0-13	Basic knowledge of chemistry	B		06.06.2011
331 08.0-14	Basic knowledge of chemistry	B		06.06.2011
331 08.0-15	Basic knowledge of chemistry	B		06.06.2011
331 08.0-16	Basic knowledge of chemistry	C		06.06.2011
331 08.0-17	Basic knowledge of chemistry	C		06.06.2011
Objective 9				
331 09.0-01	Basic knowledge of chemistry	B		06.06.2011

Number	Source	Response	Remarks	Dealt with on
331 09.0-02	Basic knowledge of chemistry	C		06.06.2011
331 09.0-03	Basic knowledge of chemistry	A		06.06.2011
331 09.0-04	Basic knowledge of chemistry	D		06.06.2011
331 09.0-05	Basic knowledge of chemistry	C		06.06.2011
331 09.0-06	Basic knowledge of chemistry	B		13.03.2012
331 09.0-07	Basic knowledge of chemistry	D		13.03.2012
331 09.0-08	Basic knowledge of chemistry	B		06.06.2011
331 09.0-09	Basic knowledge of chemistry	C		06.06.2011
331 09.0-10	Basic knowledge of chemistry	D		30.09.2014
331 09.0-11	Basic knowledge of chemistry	A		06.06.2011
331 09.0-12	Basic knowledge of chemistry	B		06.06.2011
331 09.0-13	Basic knowledge of chemistry	B		06.06.2011
331 09.0-14	Basic knowledge of chemistry	D		06.06.2011
331 09.0-15	Basic knowledge of chemistry	B		06.06.2011
331 09.0-16	Basic knowledge of chemistry	A		06.06.2011
Objective 10				
331 10.0-01	Basic knowledge of chemistry	A		06.06.2011
331 10.0-02	Basic knowledge of chemistry	B		06.06.2011
331 10.0-03	Basic knowledge of chemistry	C		06.06.2011
331 10.0-04	Basic knowledge of chemistry	A		06.06.2011
331 10.0-05	Basic knowledge of chemistry	B		06.06.2011
331 10.0-06	Basic knowledge of chemistry	B		06.06.2011
331 10.0-07	Basic knowledge of chemistry	A		13.03.2012

Number	Source	Response	Remarks	Dealt with on
Objective 11				
331 11.0-01	Basic knowledge of chemistry	A		30.09.2014
331 11.0-02	Basic knowledge of chemistry	C		06.06.2011
331 11.0-03	Basic knowledge of chemistry	A		06.06.2011
331 11.0-04	Basic knowledge of chemistry	B		13.03.2012
331 11.0-05	Basic knowledge of chemistry	C		06.06.2011
331 11.0-06	Basic knowledge of chemistry	C		06.06.2011
331 11.0-07	Basic knowledge of chemistry	D		06.06.2011
331 11.0-08	Basic knowledge of chemistry	D		06.06.2011
331 11.0-09	Basic knowledge of chemistry	B		06.06.2011
331 11.0-10	Basic knowledge of chemistry	C		06.06.2011
331 11.0-11	Basic knowledge of chemistry	B		06.06.2011
331 11.0-12	Basic knowledge of chemistry	A		06.06.2011
331 11.0-13	Basic knowledge of chemistry	D		06.06.2011
331 11.0-14	Basic knowledge of chemistry	B		06.06.2011
331 11.0-15	Basic knowledge of chemistry	D		06.06.2011
331 11.0-16	Basic knowledge of chemistry	B		06.06.2011
331 11.0-17	Basic knowledge of chemistry	B		06.06.2011
331 11.0-18	Basic knowledge of chemistry	C		06.06.2011
331 11.0-19	Basic knowledge of chemistry	A		06.06.2011
331 11.0-20			deleted (2011)	06.06.2011
Objective 12				
331 12 0-01	Basic knowledge of chemistry	B		06.06.2011
331 12.0-02	Basic knowledge of chemistry	A		30.09.2014

Number	Source	Response	Remarks	Dealt with on
331 12.0-03	Basic knowledge of chemistry	B		30.09.2014
331 12.0-04	Basic knowledge of chemistry	A		30.09.2014
331 12.0-05	Basic knowledge of chemistry	C		06.06.2011
331 12.0-06	Basic knowledge of chemistry	D		06.06.2011
331 12.0-07	Basic knowledge of chemistry	B		06.06.2011
331 12.0-08	Basic knowledge of chemistry	C		06.06.2011
331 12.0-09	Basic knowledge of chemistry	B		06.06.2011
331 12.0-10	Basic knowledge of chemistry	A		13.03.2012
331 12.0-11	Basic knowledge of chemistry	A		06.06.2011
331 12.0-12	Basic knowledge of chemistry	B		06.06.2011
331 12.0-13	Basic knowledge of chemistry	D		06.06.2011
331 12.0-14	Basic knowledge of chemistry	B		06.06.2011
331 12.0-15	Basic knowledge of chemistry	A		06.06.2011
331 12.0-16	Basic knowledge of chemistry	D		30.09.2014
Practice				
Objective 1				
332 01.0-01	Maximum permissible concentration at the work place	A		06.06.2011
332 01.0-02	Maximum permissible concentration at the work place	B		06.06.2011
332 01.0-03	Measuring the concentration of gas	C		30.09.2014
332 01.0-04	Basic general knowledge	C		06.06.2011
332 01.0-05	Measuring the concentration of gas	A		13.03.2012

Number	Source	Response	Remarks	Dealt with on
332 01.0-06	Measuring the concentration of gas	B		30.09.2014
332 01.0-07	Measuring the concentration of gas	A		06.06.2011
332 01.0-08	Maximum permissible concentration at the work place	C		06.06.2011
332 01.0-09	Maximum permissible concentration at the work place	B		06.06.2011
332 01.0-10	Maximum permissible concentration at the work place	C		13.03.2012
332 01.0-11	Measuring the concentration of gas	A		30.09.2014
332 01.0-12	Maximum permissible concentration at the work place	D		30.09.2014
332 01.0-13	Maximum permissible concentration at the work place	C		13.03.2012
332 01.0-14	Basic general knowledge	A		06.06.2011
Objective 2				
332 02.0-01	1.2.1	A		30.09.2014
332 02.0-02	3.2.3.2, Table C	B		30.09.2014
332 02.0-03	7.2.4.22.4	C		30.09.2014
332 02.0-04	3.2.3.2, Table C	B		28.09.2016
332 02.0-05	3.2.3.2, Table C	A		30.09.2014
332 02.0-06	3.2.3.2, Table C, 7.2.4.16.8, 8.1.5	B		30.09.2014
332 02.0-07	1.2.1	C		30.09.2014
332 02.0-08	3.2.3.2, Table C	A		30.09.2014
332 02.0-09	7.2.4.22.3	B		30.09.2014
332 02.0-10	3.2.3.2, Table C	D		30.09.2014
332 02.0-11	7.2.4.22.3	C		30.09.2014
332 02.0-12	1.2.1	A		06.06.2011
Objective 3				
332 03.0-01	7.2.3.44	A		30.09.2014
332 03.0-02	Cleaning the cargo tanks	B		06.06.2011
332 03.0-03	Cleaning the cargo tanks	C		30.09.2014

Number	Source	Response	Remarks	Dealt with on
332 03.0-04	Cleaning the cargo tanks	A		06.06.2011
332 03.0-05	7.2.3.44	B		06.06.2011
332 03.0-06	Cleaning the cargo tanks	D		30.09.2014
332 03.0-07	Cleaning of cargo tanks	A		06.06.2011
332 03.0-08			deleted	06.06.2011
332 03.0-09	Cleaning the cargo tanks	D		13.03.2012
332 03.0-10			deleted	06.06.2011
332 03.0-11	Cleaning the cargo tanks	C		06.06.2011
332 03.0-12	Cleaning the cargo tanks	D		30.09.2014
332 03.0-13	Cleaning the cargo tanks	C		30.09.2014
332 03.0-14	Cleaning the cargo tanks	A		06.06.2011
332 03.0-15	Cleaning the cargo tanks	B		06.06.2011
332 03.0-16	Cleaning the cargo tanks	A		13.03.2012
332 03.0-17			deleted	06.06.2011
332 03.0-18	Cleaning the cargo tanks	A		30.09.2014
332 03.0-19	7.2.3.1.5	A		06.06.2011
332 03.0-20	Cleaning the cargo tanks	B		06.06.2011
332 03.0-21	Cleaning the cargo tanks	C		06.06.2011
332 03.0-22	7.2.3.1.6	C		30.09.2014
332 03.0-23	Cleaning the cargo tanks	B		06.06.2011
332 03.0-24	Cleaning the cargo tanks	A		06.06.2011
332 03.0-25	Cleaning the cargo tanks	A		30.09.2014
332 03.0-26	7.2.3.1.6	C		30.09.2014
332 03.0-27	Cleaning the cargo tanks	C		06.06.2011
Objective 4				
332 04.0-01	9.3.2.22.4, 9.3.2.26.4	A		30.09.2014
332 04.0-02	Working with the cargo residues (Slops)	B		30.09.2014

Number	Source	Response	Remarks	Dealt with on
332 04.0-03	Working with the cargo residues (Slops)	D		30.09.2014
332 04.0-04	9.3.2.26.3	C		06.06.2011
332 04.0-05	9.3.2.26.2	D		06.06.2011
332 04.0-06	7.2.4.1.1, 9.3.2.26.1	C		06.06.2011
332 04.0-07			deleted (2012)	13.03.2012
332 04.0-08	Cargo residues	C		30.09.2014
332 04.0-09	7.2.3.7.5	D		30.09.2014
332 04.0-10	9.3.2.26.1	B		30.09.2014
Objective 5				
332 05.0-01	7.2.3.7.1	A		06.06.2011
332 05.0-02	7.2.3.7.3	B		30.09.2014
332 05.0-03	7.2.3.7.4	C		06.06.2011
332 05.0-04	7.2.3.7.2	D		06.06.2011
332 05.0-05	7.2.3.7.3	B		13.03.2012
332 05.0-06	8.3.5	D		30.09.2014
332 05.0-07	7.2.3.7.1	A		06.06.2011
332 05.0-08	8.3.5	C		06.06.2011
332 05.0-09	7.2.3.7.3	A		06.06.2011
332 05.0-10	7.2.3.7.2	C		30.09.2014
332 05.0-11	8.1.2.1 g)	C		30.09.2014
332 05.0-12	7.2.3.7.5	B		06.06.2011
Objective 6				
332 06.0-01	9.3.2.21.1	B		06.06.2011
332 06.0-02	9.3.2.21.1	C		06.06.2011
332 06.0-03	9.3.2.21.1	A		06.06.2011
332 06.0-04	1.2.1	D		30.09.2014
332 06.0-05	7.2.4.16.12	B		28.09.2016
332 06.0-06	3.2.3.2, Table C	C		30.09.2014
332 06.0-07	1,2	A		06.06.2011
332 06.0-08	9.3.2.25.2	C		06.06.2011
332 06.0-09			deleted (2007)	06.06.2011
332 06.0-10	3.2.3.2, Table C	B		30.09.2014
332 06.0-11	3.2.3.2, Table C	C		30.09.2014
332 06.0-12	3.2.3.2, Table C	D		30.09.2014
332 06.0-13	3.2.3.2, Table C	B		30.09.2014
332 06.0-14	9.3.2.21.5	A		06.06.2011
332 06.0-15	Basic general knowledge	C		06.06.2011
332 06.0-16	1.2.1	B		28.09.2016
332 06.0-17	Cubic expansion coefficient	B		30.09.2014

Number	Source	Response	Remarks	Dealt with on
332 06.0-18	Cubic expansion coefficient	B		13.03.2012
332 06.0-19			deleted (2011)	06.06.2011
332 06.0-20	7.2.4.24	B		
332 06.0-21	7.2.4.11.2	C		30.09.2014
332 06.0-22	7.2.4.21.3	A		30.09.2014
332 06.0-23	3.2.3.2, Table C	D		30.09.2014
332 06.0-24	3.2.3.2, Table C	A		30.09.2014
332 06.0-25	3.2.3.2, Table C	D		30.09.2014
332 06.0-26	7.2.4.21.3	A		30.09.2014
332 06.0-27	7.2.4.21.3	C		30.09.2014
332 06.0-28	7.2.4.21.3	C		30.09.2014
332 06.0-29	1.4.3.3 m), 7.2.4.10	A		28.09.2016
332 06.0-30			deleted (2011)	06.06.2011
332 06.0-31	7.2.3.20.1, 9.3.2.11.5	D		13.03.2012
332 06.0-32	9.3.2.25.8 b)	D		06.06.2011
332 06.0-33	3.2.3.2, Table C	B		28.09.2016
332 06.0-34	3.2.3.2, Table C	D		28.09.2016
332 06.0-35	Inerting	C		06.06.2011
Objective 7				
332 07.0-01	3.2.3.2, Table C	A		30.09.2014
332 07.0-02	Temperature action	B		06.06.2011
332 07.0-03	Temperature action	C		06.06.2011
332 07.0-04	3.2.3.2, Table C	D		30.09.2014
332 07.0-05	3.2.3.2, Table C	D		30.09.2014
332 07.0-06	3.2.3.2, Table C	C		30.09.2014
332 07.0-07	3.2.3.2, Table C	C		28.09.2016
332 07.0-08	Temperature action	A		06.06.2011
332 07.0-09	7.2.4.21.2	A		30.09.2014
332 07.0-10	3.2.3.2, Table C	B		30.09.2014
332 07.0-11	3.2.3.2, Table C	C		30.09.2014
332 07.0-12	3.2.3.2, Table C	A		30.09.2014
Emergency measures				
Objective 1				
333 01.0-01	First aid	A		06.06.2011
333 01.0-02	First aid	B		06.06.2011
333 01.0-03	First aid	D		06.06.2011
333 01.0-04	First aid	D		06.06.2011
333 01.0-05	First aid	A		06.06.2011
333 01.0-06	First aid	A		06.06.2011

Number	Source	Response	Remarks	Dealt with on
333 01.0-07	First aid	B		06.06.2011
Objective 2				
333 02.0-01	Measures in case of damage	A		06.06.2011
333 02.0-02	Measures in case of damage	C		06.06.2011
333 02.0-03	Measures in case of damage	D		06.06.2011
333 02.0-04	Measures in case of damage	A		06.06.2011
333 02.0-05	Measures in case of damage	C		06.06.2011
333 02.0-06	First aid	D		13.03.2012
Objective 3				
333 03.0-01	Emergency measures in case of a leak	A		06.06.2011
333 03.0-02	Emergency measures in case of a leak	D		06.06.2011
333 03.0-03	Emergency measures in case of a leak	C		06.06.2011
333 03.0-04	Basic general knowledge	D		06.06.2011
333 03.0-05	Basic general knowledge	A		06.06.2011
Objective 4				
333 04.0-01	Damage-control and alert plans	D		06.06.2011
333 04.0-02	Damage-control and alert plans	A		06.06.2011
333 04.0-03	Damage-control and alert plans	C		06.06.2011
333 04.0-04	Damage-control and alert plans	D		06.06.2011
333 04.0-05	Damage-control and alert plans	C		06.06.2011
333 04.0-06	Damage-control and alert plans	B		06.06.2011