



# Generic Training design ECOL 01/03

## Generic Training Design ECOL, Macro Design

Explanatory note to project team ESTA-ECOL:

The generic training design contains the boundaries of the ECOL-training for crane operators who want to obtain the ECOL-license. These boundaries are terms and conditions for implementing and executing, such as training duration, proportion of theoretical and practical components, learning hours, blended learning etc.. This design does not contain the design for examination.

This macro design should be used in combination with the ECOL-standard for crane operators. This standard describes in detail what a crane operator does and should know.

For further understanding of the ECOL-standard please refer to the Operator Certification Outline ECOL 01/05.

The following groups have given their input:

- on July 22<sup>nd</sup> 2015 the taskforce discussed the subjects with descriptions.
- on March 3<sup>rd</sup> 2015 the training committee of VVT discussed what educators and examiners need to know about ECOL in order to develop training and examination.
- Various ECOL workgroup meetings during 2016, 2017 and 2018 adapted the document up to its present version with input from the members' national associations.
- As of vs06 this document has been endorsed by the ECOL Committee of Experts.

Editing table: Generic Training Design ECOL 01/03			
Date edited	Version number	Remarks	Edited by
18082021	vs 14	§ 13 edited reference to 01-03a	T. Klijn
09112020	vs 13	Several edits to align with glossary	T. Klijn
06082020	vs 12	§2.2 hearing requirements adapted	T. Klijn
25042020	vs 11	RPL requirements edited §13.2	T. Klijn
02032020	vs 10	Level language skills inserted § 3	T. Klijn
06012020	vs 09	Adapted § 14.2.2	T. Klijn
29102019	vs 08	Adapted § 13 Exemptions	T. Klijn
28082019	vs 07	Edited §10 to comply with Expert Cie. decisions in meeting 1	T. Klijn
15042019	vs 06	Adaptions to comply with ISO 9001	T.Klijn
25032019	vs 05	Changes after WG ECOL meeting	T.Klijn
22072015	vs 01	Adaptions after content check	Taskforce ECOL
003032015	vs draft	Initial setup of the document	VVT training cie.



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## 1. Generic Training Design

Subject	Description
<b>Name Training</b>	European Crane Operator Licence
<b>1 Target Group</b>	<p>1.1 Persons with the ambition to become crane operator.</p> <p>1.2 Experienced crane operators wishing to obtain an ECOL licence.</p>
<b>2 Admission requirements</b>	<p>2.1 18 years or older</p> <p>2.2 Medically fit according to truck drivers licence regulations, with unimpeded hearing capabilities.</p> <p>2.3 Truck drivers (C- class) licence</p>
<b>3 Admission preferences</b>	<p>3.1 Basic knowledge of English is expected (CEFR level A2)</p> <p>3.2 Working ability at EQF 3 level is expected</p>
<b>4 Level of education</b>	4.1 Level EQF 3
<b>5 Result</b>	<p>5.1 At the end of this training the student is able to handle a mobile crane according to the intended use and the ECOL safety level.</p> <p>5.2 At the end of the training the student is able to pass the ECOL-examination.</p>
<b>6 Description of content</b>	<p>6.1 The training content is based on the work processes of a crane operator (ECOL standard) and follows the learning outcomes as formulated:</p> <ul style="list-style-type: none"> <li>6.1.1 Roles and responsibilities of a mobile crane operator</li> <li>6.1.2 Preparing for work</li> <li>6.1.3 Travelling and maneuvering</li> <li>6.1.4 Preparing for work at the jobsite</li> <li>6.1.5 Set the crane to perform the lifting task</li> <li>6.1.6 Lifting working operation</li> <li>6.1.7 Completing work</li> </ul> <p>6.2.1 This training contains the following formal requirements in order to be directly employable:</p> <p>6.2.2 Health and safety knowledge and skills.</p> <p>6.2.3 Handling a mobile crane for its intended use.</p>
<b>7 Language</b>	<p>7.1 The training and examination can be in English or in the national language, but in order to receive the ECOL-license, the crane operators must master basic English in order to communicate outside the national borders and to communicate with the ECOL organization.</p> <p>7.2 Basic English should at least contain the words as listed in the ECOL Glossary.</p>



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<b>8 Learning material</b>	<p>8.1 Sources:</p> <ul style="list-style-type: none"><li>8.1.1 Crane manuals</li><li>8.1.2 Risk assessment and evaluation</li><li>8.1.3 Legislation (applicable in training country)</li><li>8.1.4 Table of learning outcomes (ECOL - standard)</li></ul> <p>8.2 Learning forms must include:</p> <ul style="list-style-type: none"><li>8.2.1 Cranes and lifting accessories</li><li>8.2.2 Formal in class learning</li><li>8.2.3 Learning on the job or practice area And can include:</li><li>8.2.4 Self-study (for example e-learning)</li><li>8.2.5 Crane simulators (max. 20 hrs.)</li></ul>
<b>9 Training location requirements (practice)</b>	<ul style="list-style-type: none"><li>9.1 Training location has to have at least one mobile crane of a recent manufacturing date meeting all legal requirements including EN13000</li><li>9.2 Practice must be supervised</li><li>9.3 During practice, a maximum of 2 students on one machine will be supervised by one instructor (preventing accidents)</li><li>9.4 Crane capacity between 30 and 100 ton crane</li><li>9.5 Training location to meet the requirements as laid out in the ECOL document Requirement Guidelines for Training Institutions ECOL 2.04</li><li>9.6 Theoretical classes hold maximum 8 and a minimum of 2 students</li></ul>
<b>10 Delivery of the training</b>	<ul style="list-style-type: none"><li>10.1 The training can be delivered in a training institute, where the training duration for a novice is 240 hours learning time tutorial. Balance theory – practice: min 100 hours each.</li><li>10.2 Alternatively the practical part of the training can be absolved in an in-company(apprentice) program. Minimum duration is 240+ 40 hours. In company training programs should comply with the Requirement Guideline for Education Institutions ECOL 2.04</li><li>10.3 Learning focuses on the development of:<ul style="list-style-type: none"><li>10.3.1 Attitude</li><li>10.3.2 Skills</li><li>10.3.3 Knowledge</li></ul></li><li>10.4 The training should contain a mid-term assessment by the instructor.</li></ul>
<b>11 Instructor requirements</b>	<ul style="list-style-type: none"><li>11.1 See: Requirements Guideline for Education Institutions ECOL 2.04</li></ul>

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<p><b>12 Examination</b></p>	<p>12.1 The exam consist of three parts:</p> <ul style="list-style-type: none"> <li>I. Technical (theory and practice including European legislation)</li> <li>II. National legislation (theory)</li> <li>III. English language (theory)</li> </ul> <p>All theory exams are multiple choice, one has to pass every part of the Exam to obtain the licence. Details of the examination procedure are stipulated in the Operator Certification Outline ECOL 01/05 and the Examination Regulations ECOL 01/06.</p> <p>12.2 Re-examination: Re-examination is according to the Examination Regulations ECOL 01/06, §6.</p>
<p><b>13 Exemption</b></p>	<p>13.1 Examination- or training exemptions based on licence recognition or training time reduction can be applied for at the ECOL foundation.</p> <p>13.2 Licence recognition can be granted based on the procedure in ECOL 01-03a Training design and Certification details</p> <p>13.3 Reduction of training time can (inter alia) be granted based on recognition of prior learning (RPL) and on the following experience requirements:</p> <ul style="list-style-type: none"> <li>- Crane operators with four to eight years (48 to 96 months) of operating experience will have to follow a three week training consisting of 40 hours practice and 80 hours theory.</li> <li>- Crane operators with eight or more years (&gt; 96 months) of operating experience will have to follow a one week training consisting of 16 hours practice and 16 hours theory.</li> </ul> <p>13.4 The application for training time reduction must contain analysis methods (one or more) such as:</p> <ul style="list-style-type: none"> <li>13.4.1 Portfolio analyses (diploma's, certificates, experience registration) by the ECOL foundation.</li> <li>13.4.2 Proof of operating experience.</li> <li>13.4.3 Interview with applicant and training time advise from an industry expert / trainer.</li> </ul> <p>13.5 The full requirements for Training time reduction can be found in: ECOL 01-03a Training design and Certification details.</p>
<p><b>14 Validity/ renewal</b></p>	<p>14.1 The ECOL-license is valid for 5 years. Renewal takes:</p> <ul style="list-style-type: none"> <li>14.2.1 Relevant and recent work experience: SkillRecord logbook registration or practical assessment;</li> <li>14.2.2 Proof of relevant re-training or theoretical test containing the latest developments in crane technique and regulations as outlined in ECOL Certification outline 01/05;</li> <li>14.2.3 Medically fit at the point of renewal as defined in point 2.2 .</li> </ul>