



# 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 01/01 vs 003.

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 and 2017 adapted the document up to its present version with input from the members' national associations.

Editing table: Generic Training Design ECOL 01/03			
Date edited	Version number	Remarks	Edited by
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>	1.1 Persons with the ambition to become crane operators.
<b>2 Admission requirements</b>	2.1 18 years or older 2.2 Medically fit according to truck drivers licence regulations 2.3 Truck drivers (C- class) licence
<b>3 Admission preferences</b>	3.1 Basic knowledge of English is expected 3.2 Working ability at EQF 2 level is expected
<b>4 Level of education</b>	4.1 EQF 2
<b>5 Result</b>	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. 5.2 At the end of the training the student is able to take the ECOL-exam.
<b>6 Description of content</b>	6.1.2 6.1 The training content is based on the work processes of a crane operator (ECOL standard) and follows the learning outcomes as formulated: 6.1.3 6.1.1 Roles and responsibilities of a mobile crane operator 6.1.4 Preparing for work 6.1.5 Travelling and maneuvering 6.1.6 Preparing for work at the jobsite 6.1.7 Set the crane to work 6.1.8 Lifting working operation 6.1.9 Completing work  6.2 This training contains the following formal requirements in order to be directly employable: 6.2.1 Health and safety knowledge and skills. 6.2.2 Handling a mobile crane for its intended use.
<b>7 Language</b>	7.1 The training and examination is 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.  7.2 Basic English should at least contain the words as listed in the ECOL Glossary.

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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 gear</li> <li>8.2.2 Formal in class learning</li> <li>8.2.3 Learning on the job or practice area</li> </ul> <p>And can include:</p> <ul style="list-style-type: none"> <li>8.2.4 Self-study (for example e-learning)</li> <li>8.2.5 Crane simulators</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 A.1.2</li> <li>9.6 Theoretical class 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 For a novice training duration: 240 hours learning time tutorial. Balance theory – practice: min 100 hours each.</li> <li>10.2 Learning focuses on the development of: <ul style="list-style-type: none"> <li>10.2.1 Attitude</li> <li>10.2.2 Skills</li> <li>10.2.3 Knowledge</li> </ul> </li> <li>10.3 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 ECOL Requirement Guideline for Training Institutions A.1.2</li> </ul>
<b>12 Examination</b>	<ul style="list-style-type: none"> <li>12.1 The exam consist of three parts: <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> </li> </ul> <p>All theory exams are multiple choice, one has to pass every part to obtain the diploma. Details of examination are laid down in the Operator Certification Outline ECOL 01/05 and the Examination Regulations ECOL 01/06</p>

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<b>13 Exemption</b>	<p>12.2 Re-examination: Re-examination is according to the Examination Regulations ECOL 01/06, §6.</p>
	<p>13.1 Exemption for training (in order to shorten the training program) is the decision of the training institute. They must use analysis methods (one or more) such as:</p> <ul style="list-style-type: none"><li>13.1.1 Portfolio analyses (diploma's, certificates)</li><li>13.1.2 Interview with an industry expert</li><li>13.1.3 Technical assessment</li></ul> <p>13.2 Taking the exam without any training is possible if the potential examinee has:</p> <ul style="list-style-type: none"><li>13.2.1 A relevant diploma or certificate (to be analyzed by the ECOL examination committee)</li><li>13.2.2 Valid and relevant work experience, including manufacturer instructions (portfolio analysis by the ECOL examination committee)</li></ul>
<b>14 Validity/ renewal</b>	<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 or practical assessment</li><li>14.2.2 Theoretical test containing the new developments laid out on a fact sheet</li><li>14.2.3 Medically fit at the point of renewal (Class C license holder)</li></ul>