NEW RIDER TRAINING SYSTEM IN NORWAY

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March 28 – 30, 2006
Long Beach, CA - USA
Background

- New rider and driver training system from 1. January 2005
- Aim: To establish a system which is based on recent research and theories on driver and rider training development
- The new rider training system is “tailor-made” for reduction of typical motorcycle accidents types
Theoretical foundation

- The "GADGET-project" (Hattaka et al. 1999)
  - Riding tasks arranged in levels
- The GDE-matrix (Peräaho et al. 2003)
  - A model for developing and designing traffic education systems
  - Four hierarchic levels:
    - Highest level
    - Strategic level
    - Tactical level
    - Maneuvering level
Central content of rider education

**Highest level**
Goals for life and skills for living (global)

**Strategic level**
Goals and context of riding (specific journey)

**Tactical level**
Mastery of traffic situations (specific situation)

**Maneuvering level**
(Specific task)

**Knowledge and skills**
- Knowledge about/control over how general life goals and values, behavioral style, group norms etc. affect riding
- General knowledge and skills re. rules, speed adjustment, safety margins, signaling, etc
- Basic knowledge and skills re. vehicle properties, friction etc.

**Risk increasing factors**
- Knowledge about/control over risks connected with life goals and values, behavioral styles, social pressure, substance abuse etc.
- Knowledge and skills re. inappropriate speed, narrow safety margins, disregard for rules, difficult riding conditions etc.

**Self-evaluation**
- Awareness of personal tendencies re. impulse control, motives, lifestyle, values etc. Developing self-evaluation skills.
- Awareness of personal planning skills, typical riding goals, riding motives, etc. Developing self-evaluation skills.
- Awareness of personal strengths and weaknesses re. basic riding skills and vehicle control (especially in hazardous situations) etc. Developing self-evaluation skills.
Accident situation

- Single vehicle accidents accounts for 44% of all motorcycle fatal accidents. (2000-2004)

- Accident data indicates that a major part of these accidents occur during riding at “normal” speed
Key points

- Stepwise model
- Focus on enhanced technical rider competence
- Technical training must be balanced according to the GDE-matrix higher levels
  - Self-awareness
  - Self-insight
- Mandatory safety course in precise riding technique
- Mandatory safety course in safe road riding
- Mandatory evaluation and guidance lessons
Stepwise model

Step 1
Basic Knowledge

Step 2
Vehicle Manoeuvring

Step 3
Mastery of Traffic Situations

Step 4
Traffic Safety

Driving Test (Practical and Theoretical)

Specific level of competence

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## Training system, category A1 and A

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Step 2</th>
<th>Step 3</th>
<th>Step 4</th>
<th>Driving test</th>
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</thead>
<tbody>
<tr>
<td>Course in basic road traffic knowledge (Mandatory) 17 lessons</td>
<td>Motorcycle-Driving. Interaction, environment, safety 3 Theoretical lessons (Mandatory)</td>
<td>Mandatory safety course in precise riding technique 4 mandatory lessons</td>
<td>Mandatory course in safe road riding 8 mandatory lessons (both theoretical and practical)</td>
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<td>= Competence Objectives</td>
<td>= Mandatory evaluation and guidance lesson</td>
<td>= Voluntary training – competency goals</td>
<td>= Mandatory training</td>
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</tbody>
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Instructors competence

- Instructors competence is paramount
- A precondition for reaching the goals for the new training system
- Established a two-years education for driving instructors at college level
- Additional specialist training for motorcycle instructors
- Special training for the examiners
Evaluation

- Conducted by The Institute of Transport Economics, Oslo (TØI)
- Commenced in 2004 (pre-group)
- Ends in 2009 (after-group)
- Evaluation parameters:
  - Involvement in traffic accidents
  - Technical skills and skills needed in traffic situations
  - Planning and preparing for a journey
  - Self-knowledge and self-assessment tendencies
  - Changes in rider population
Thank you

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