



## PROJECT EXPERIENCE

### UNDERWATER BRIDGE INSPECTION AND BRIDGE REPAIR AND REHABILITATION COURSES FOR FEDERAL HIGHWAY ADMINISTRATION

Collins is providing course development services to the US Federal Highway Administration's (FHWA) National Highway Institute (NHI). The courses include an update of *Underwater Bridge Inspection* (130091), and development of the new *Underwater Bridge Repair, Rehabilitation, and Countermeasures* (130091A). It is anticipated that the courses will be finalised by autumn of 2010.

*Underwater Bridge Inspection* is a stand-alone course that provides training for divers who require a knowledge base of underwater bridge inspection and evaluation techniques in order to meet the education requirements of the National Bridge Inspection Standards (NBIS) for underwater bridge inspection training.

*Underwater Bridge Repair, Rehabilitation, and Countermeasures* is a two-day course that provides training to design engineers, construction inspectors and inspection divers in techniques for selecting and executing repairs to below water bridge elements. This course may be presented in conjunction with *Underwater Bridge Inspection*, or as a stand-alone class.

In addition to developing the courses and all required course materials, Collins is developing accompanying reference manuals for both courses. For *Underwater Bridge Inspection*, the manual provides guidelines for underwater bridge inspection; acquaints those responsible for bridge safety with underwater inspection techniques and equipment; and presents commonly found defects. For *Underwater Bridge Repair, Rehabilitation, and Countermeasures*, the manual is intended to serve as a reference addressing a variety of design and construction issues that must be considered in determining the feasibility of, and selecting the repair or rehabilitation methodology for, underwater projects. This information can aid in developing cost effective and durable repair and rehabilitation designs.

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