

2008 PROGRAM OUTCOMES ASSESSMENT SUMMARY REPORT

PROGRAM: MARINE DECK TECHNOLOGY - CERTIFICATE

DATE: 11 JANUARY 2008

DEMONSTRATION OF LEARNING: *What assignments or projects demonstrate student learning outcomes are achieved?*
[Note: evidence of learning contained in Assessment methods and Findings sections.]

Learning Outcomes	Assessment methods
<p>Demonstrate the necessary skills (navigation, vessel operation and safety, Rules of the Road) to obtain a license as Master of Inland Steam or Motor Vessels of Not More Than 100 Gross Tons.</p>	<p>Students are tested each quarter for both competencies and knowledge through the competencies lists and exam questions developed by the Coast Guard. Exams with Coast Guard content are attached to each course, except for Algebra MGO 119, ENG 105 and welding.</p> <p>MGO 113 – Marine Safety; includes on-board survival drill at sea.</p> <p>MGO 133 – Seamanship practicum; students underway for one 12 hour day each week with hands-on skills development and assessment for Coast Guard competencies.</p> <p>MGO166 – Navigation Practicum; underway 12 hours each week and assessment for Coast Guard competencies.</p> <p>MGO 120 – Vessel Maintenance; hands-on vessel repair with Coast Guard competencies testing</p> <p>MGO124 – Basic Vessel Handling: hands-on skills development with Coast Guard competencies testing</p> <p>MGO 200 – Internship at sea; students are assigned positions on industry ships. Coast Guard assessment embedded with Coast Guard competencies matrix. Program Letter of Completion details eligibility for STCW, MMD and each endorsement.</p>
<p>Satisfy both the written and practical examination requirements for both the Able Seaman and the Lifeboatman endorsements. Students will receive the Lifeboatman endorsement at graduation.</p>	<p>The examination requirements are built directly into the curriculum. As a result, the program is able to issue each student a letter of completion at graduation, addressed to the Coast Guard, which certifies the student is eligible for the Able Seaman and Libeboatman endorsements.</p>

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<p>Qualify for an STCW (Standards Training Certification Watchstanding) "ratings forming part of a navigational watch" endorsement.</p>	<p>The certification letter also documents that the student has satisfied the training and assessment requirement for the STCW ratings.</p>
<p>Qualify for a license as Apprentice Mate (Steersman) of Near Coastal Uninspected Towing Vessels.</p>	<p>The certification letter further documents the student has qualified for the Apprentice Mate license.</p>

EXTERNAL EVIDENCE? *Alumni, employer, Curriculum Review, Technical Advisory Committee feedback?*

Technical Advisory Committee: The Marine Technology program relies on the advice of the Technical Advisory Committee [which meets quarterly?]. This group keeps the program informed about changes in industry such as trends in the size of vessels and changes in technology.

U.S. Coast Guard: The program curriculum was designed around the certification requirements of the Coast Guard and curriculum changes are rarely made unless there is a change in Coast Guard Requirements. The program is recertified on a 5-yr cycle.

International Maritime Organization (IMO): This organization issues the MMD, which is the internationally recognized Merchant Marines Document. This document enables graduates of the program to be employed anywhere in the world.

STCW Convention: This body establishes a common standard for the IMO and Coast Guard for Standards and Training Certification of Watchkeeping. They issue the STCW certificate for students satisfying their requirements through the Marine Technology Certificate Program.

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FINDINGS: *What have you learned from your outcomes assessment activities?*

Students have a high degree of success in completing the program and obtaining the relevant qualifications for employment. Students indicate they are well prepared for both their internships and for employment when they complete the program.

Employer satisfaction is high as indicated by specific feedback on internship evaluations. Student graduates are in very high demand. The demand is far greater than the supply and the program should be expanded with more faculty and better equipped facilities. The feedback from employers following student internships is very positive. Problems that may arise with individual students are dealt with on an individual basis.

The Coast Guard is beginning to make changes in the recertification process for the mariner. Industry input is part of the process and the recertification process is on-going. There is no deadline for this process. Delete the sentence "Marine engineers are required to be recertified on a five year cycle".

Industry changes include new technology and larger vessels which should be integrated into program curriculum.

ACTIONS TAKEN: *What program changes have you made in the last three years? -- WHAT WAS THE IMPETUS FOR CHANGE?*

The program proposed a new facility to accommodate the changing needs for space, equipment, technology and greater industry demand for qualified workers. The building replacement is #1 on the State list and by March, 15, 2009 the decision to allocate funds will be finalized. Building will take place during 2010-2011 year.

The program adjusts curriculum to accommodate industry demands. For example, commercial boats are getting bigger, platforms are more complex, crews are smaller, and there is demand for greater technical competencies. Curriculum changes that respond to these developments are initiated through changes in Coast Guard standards and competencies lists and exam questions at the course level.

ACTIONS PLANNED: *What program changes or new assessment activities are you planning for next year?*

As a result of the Coast Guard recertification requirements, the program will be introducing a continuing education program to prepare mariners for the recertification exams.

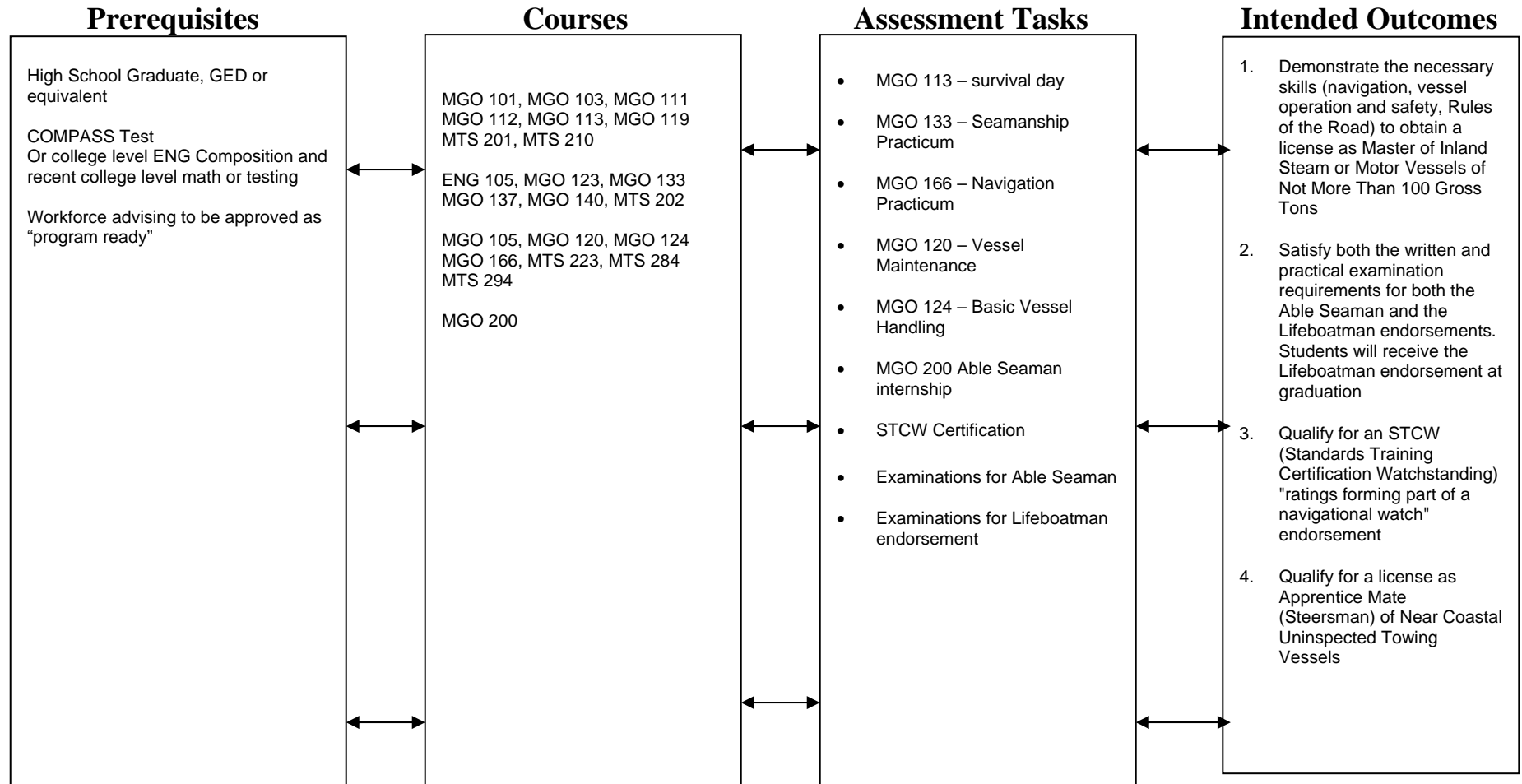
The new building will allow for expanded work and classroom space, updated equipment and technology, but new faculty must be hired to accommodate demand for increased enrollment. Two additional full time faculty will be required to meet these demands.

Program Name:

Marine Deck Technology – Certificate

Revised 11 January 2008

Theme(s): Theory; safety and survival; technical competence; shipboard culture and protocol; cooperation and teamwork; leadership
Program Role: Prepares students for all Coast Guard requirements for employment in the maritime industry as professional mariners.



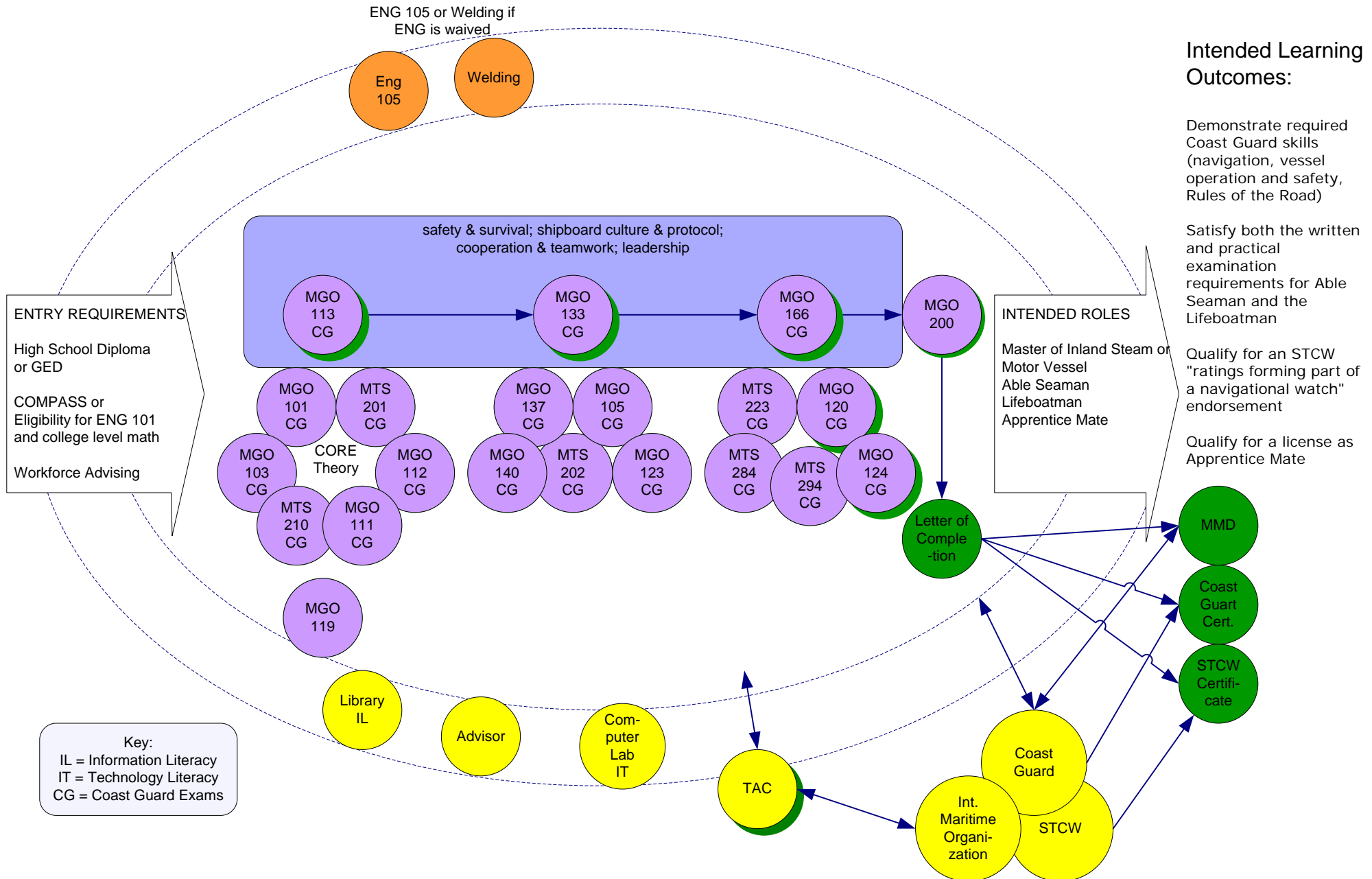
What must students understand to demonstrate the intended outcome?

What skills must students master to demonstrate the intended outcome?

What will students do in here to demonstrate evidence of the outcome?

What do students need to be able to DO "out there" that we're responsible for "in here"??

Program: Marine Deck Technology - Certificate
 Snapshot on: 11 January 2008



Program Assessment Inventory

Program: Marine Deck Technology – Certificate

Assessment methods used to determine that students are prepared to succeed and that they have achieved the program learning outcomes when they complete degrees or certificates.

	<i>Early program</i>	<i>Mid program</i>	<i>End of program</i>
<i>Students are prepared to learn (prerequisites)</i>			
ASSET test scores			
COMPASS test scores	<i>x (or transcripts)</i>		
SLEP test scores			
Other?			
<i>Students are assessed as they move through the program</i>			
Competencies assessment	<i>embedded throughout program</i>		
Internship feedback			<i>MGO 200</i>
Pre-Mid-Post assessment	<i>embedded throughout program</i>		
Service Learning experience feedback			
Student course evaluations	<i>quarterly</i>		
Student focus groups			
Student grades	<i>quarterly</i>		
Student interviews			
Student self assessment			
Student surveys			
<i>Students are assessed as they complete the program</i>			
Completion statistics			
Capstone projects			<i>MGO 200</i>
Graduation statistics			
Portfolios			
Presentations			
<i>External assessment data is collected</i>			
Transfer rates			<i>by college</i>
Employer surveys			
Technical Advisory Committee	<i>meets quarterly</i>		
License certification success rates			<i>by college</i>
Performance in 4 year programs			
Employment rates			<i>x</i>
Salary statistics			<i>union rates*</i>
Survey of former students			<i>informal</i>
Other?	<i>* \$45,000 - \$60,000 to start</i>		

Marine Deck Technology – Certificate

2006 Learning Outcomes

Students successfully completing the program will:

1. Demonstrate the necessary skills (navigation, vessel operation and safety, Rules of the Road) to obtain a license as Master of Inland Steam or Motor Vessels of Not More Than 100 Gross Tons.
2. Satisfy both the written and practical examination requirements for both the Able Seaman and the Lifeboatman endorsements. Students will receive the Lifeboatman endorsement at graduation.
3. Qualify for an STCW (Standards Training Certification Watchstanding) "ratings forming part of a navigational watch" endorsement.
4. Qualify for a license as Apprentice Mate (Steersman) of Near Coastal Uninspected Towing Vessels.