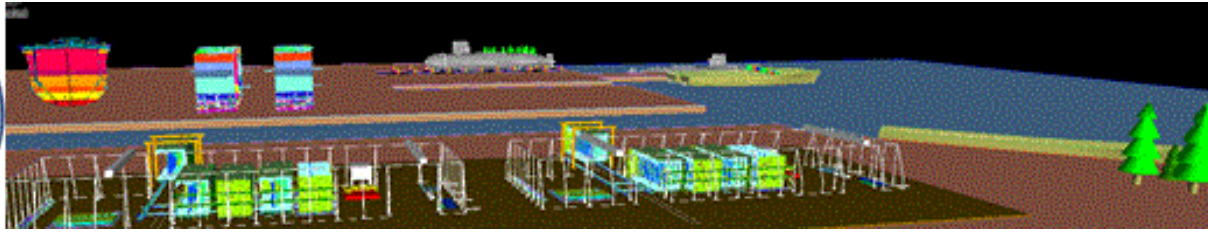


SHIPYARD ORIENTATION PROGRAM

**NSRP Joint Panel Meeting
June 13, 2012**

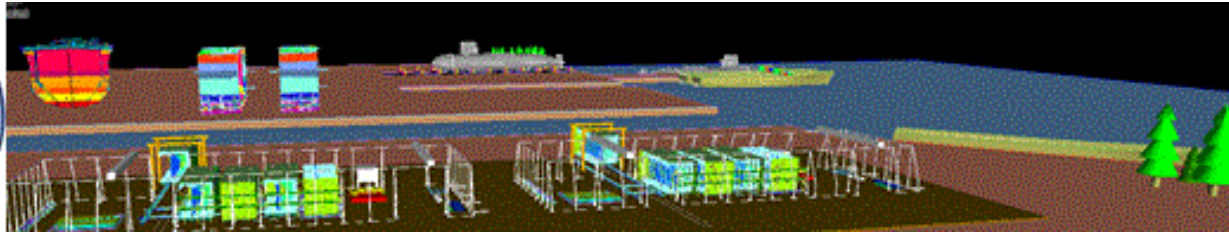
Paula Langteau, Campus Executive Officer & Dean





Shipyard Orientation Project Participants

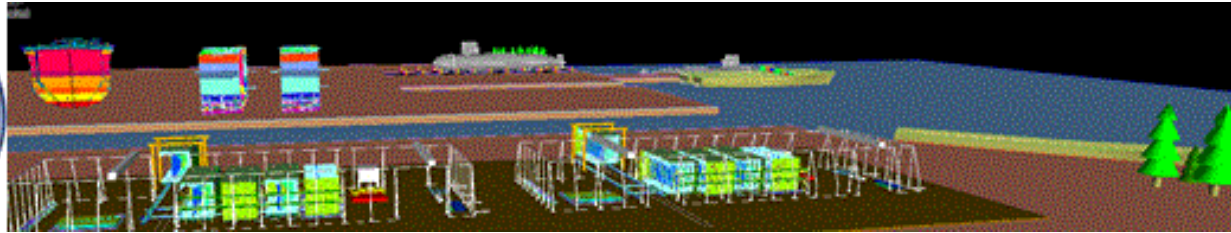




Orientation Project Purpose

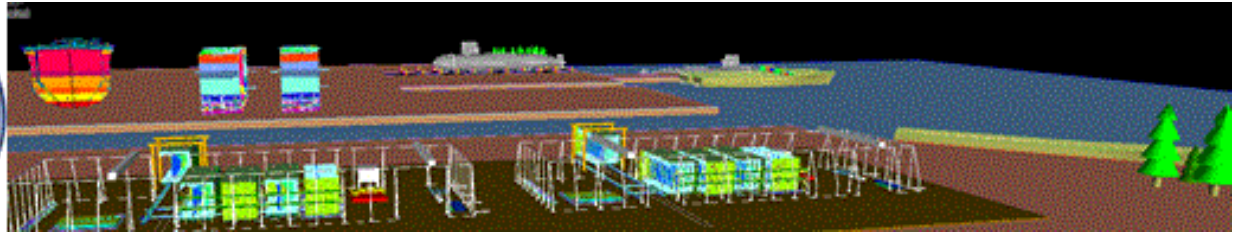
Address the ongoing challenges of orientation and training :

- Cover a wide range of shipyard specific skills and knowledge.
- More actively engage learners than booklet or short course.
- Retain knowledge at greater rate than current training.
- Access high quality, standardized training material that is transferrable to any shipyard environment.



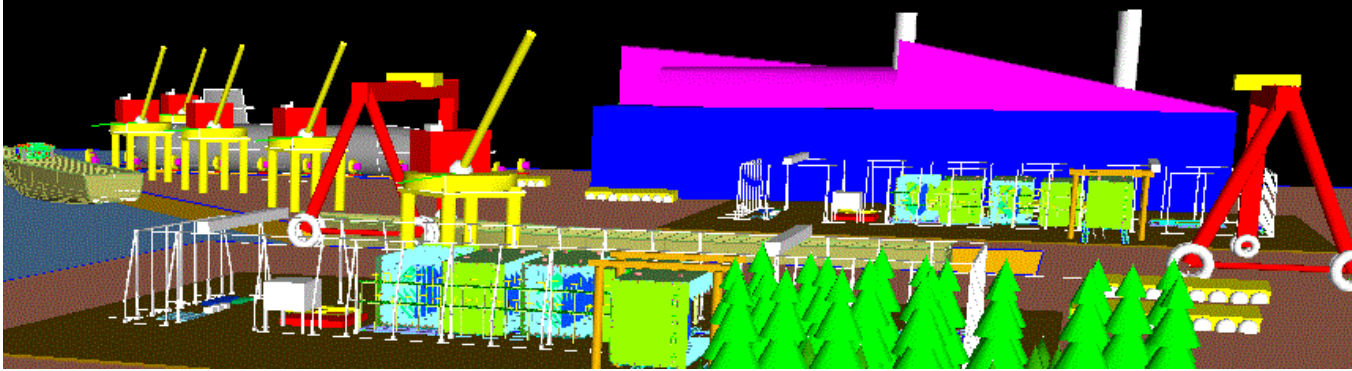
Orientation Program Characteristics

- a centralized on-line source (24/7, on-demand)
- an engaging 3D virtual fly-through environment
- the scope and potential for far deeper knowledge and skills being delivered and then retained



Bonus Use...

As a **recruitment tool** for attracting new talent to the industry!



Orientation Delivery

- **NAVISWORKS FREEDOM** (Autodesk – free download)
- **D2L (Desire to Learn)** – online course delivery platform

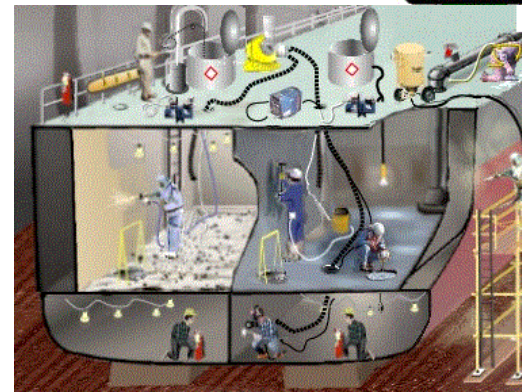
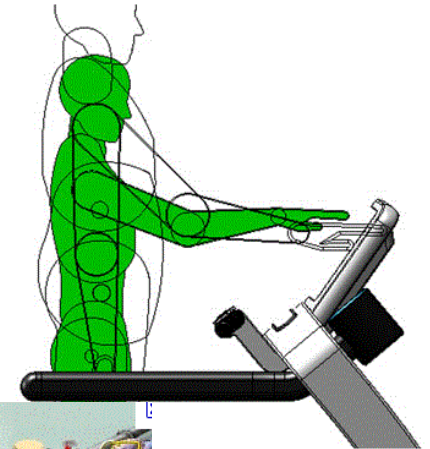
GAP ANALYSIS:

Areas identified were:

- 1) Confined Spaces
- 2) Weld Flash
- 3) The Safety Office
- 4) Quality Control – Quality Assurance
- 5) Cranes, Trains and Crushing Objects
- 6) Material Flow
- 7) Basic Terminology
- 8) Environmental Compliance
- 9) Ergonomic Issues

Added to this were two modules:

- a) Course Introduction
- b) Evaluation of this course



Log In

Username *

Password

[Log In](#)

*Do not include "@uwc.edu" in your username.



News

-Important:

Upcoming Outages:

Beginning June 15th at 10 pm until 10 am, June 16th for upgrade to new version.

Tentatively - July 16th - 6am to 6 pm

Link to Alternate D2L Login Page - Please bookmark this page.

Access to D2L is not available between 5 and 7 a.m. on Thursdays for system upkeep.

Desire2Learn (D2L) is the course management system for the UW Colleges.

UW Colleges Online? Go to:
<https://uwconl.courses.wisconsin.edu>

Students

Students, to look up your username/password go to uwc.edu/account.

All users working from home should do a **system check** before logging in.

The system check will help you optimize your home computer settings with D2L.

Faculty

Faculty members may request new course sites using the **NEW course request form**.

Please be sure to run a **system check** before working from home.

WisLine Web Training Archives

[D2L Online Documentation](#)

D2L Online Training

Help Desk

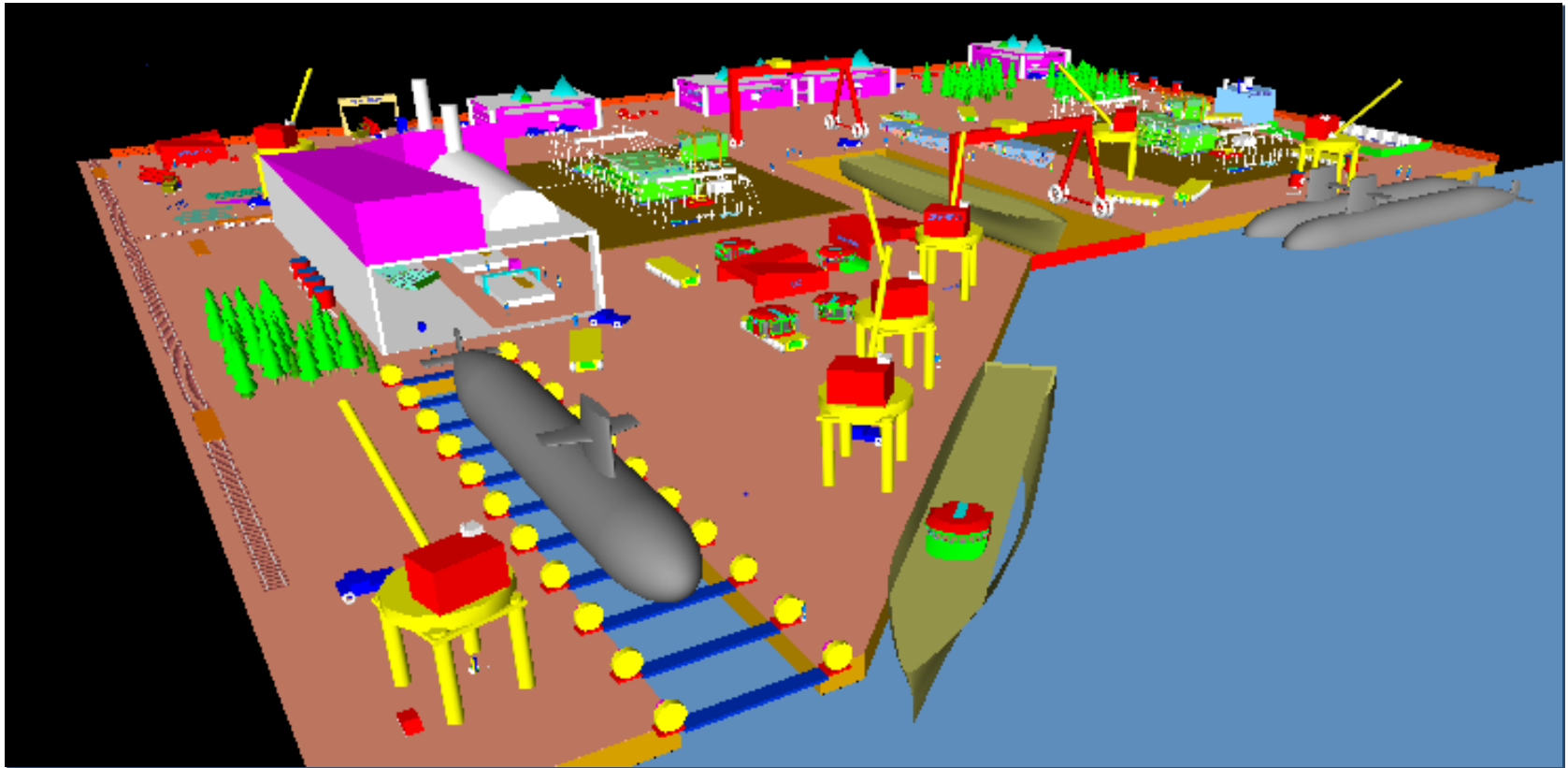
UW Colleges Campus students and instructors - if you have problems with D2L please visit the **UW Colleges Service Desk**.

You can also call the **Service Desk** at 1-888-UWEXUWC (1-888-893-9892.)

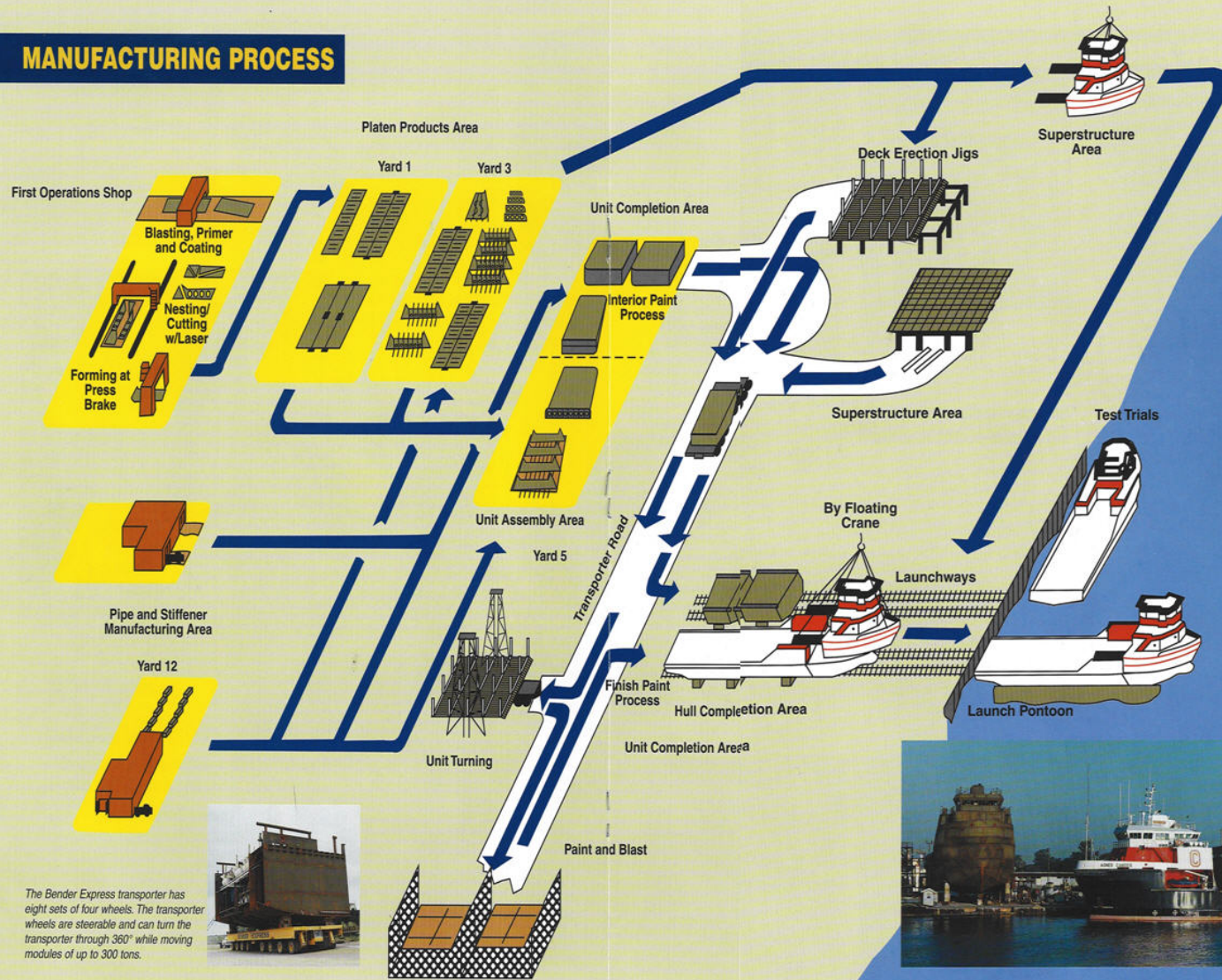
UW Colleges Online students and instructors should contact the **UW Colleges Online Helpdesk** or email them at uwconlinesupport@uw.edu.

You can also call the **UWC Online Helpdesk** at 1-877-449-1877.

The Virtual 3D Shipyard

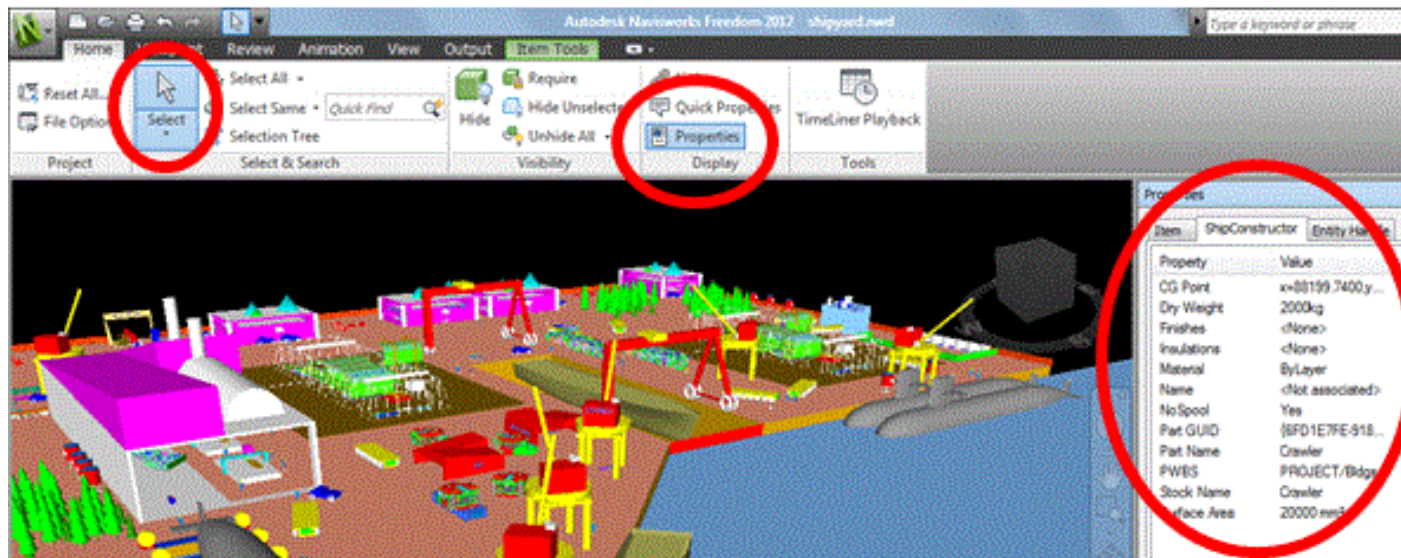
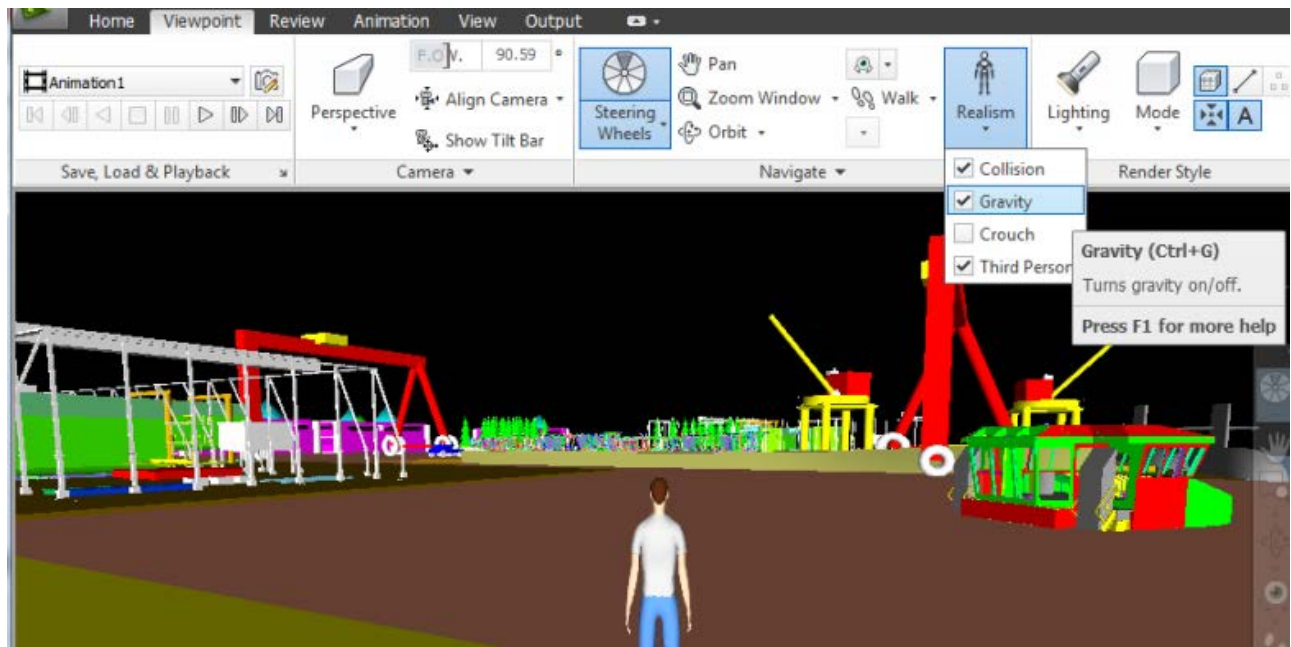


MANUFACTURING PROCESS



The Bender Express transporter has eight sets of four wheels. The transporter wheels are steerable and can turn the transporter through 360° while moving modules of up to 300 tons.

This software is in use in shipyards throughout the US, and learners gain not only an understanding of the key orientation subjects but hands on skills identifying part properties within a shipbuilding software.



The screenshot displays the SolidWorks software interface. The top ribbon shows the 'Item Tools' tab. The 'Selection Tree' on the left lists components: Twisted Stiffener, Faceplate, and Faceplate. The 'Properties' panel on the right shows the following data:

Property	Value
Material	ByLayer
Part Name	E-INB-F01
Stock Name	FB 90X10
Drawing Name	E05FR_34
Part GUID	{B643D6E8-8A...
Color	14
Part Side	Port
Plate Nest Drawing	None
Plate Nest	None
Assembly Name	INB
Assembly Full Na...	PROJECT/E05/...
LCG	34005
TCG	3780.776276833
VCG	1060.328745336
Surface Area	311171 mm ²
Weight	11kg

The blue faceplate can be seen to weigh 11kg.

A typical set of activities describes the target competencies

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Welcome, Graham!Wednesday, March 7, 2012Calendar

UNIVERSITY OF WISCONSIN
Colleges
The Freshman/Sophomore UWP experience

Shipyard Orientation Program (NSRP)

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Shipyard Orientation Program (NSRP)

Collapse AllExpand All

Introduction

Course Outline

Course Downloads

Navigating the 3D Environment

Self-Assessment - Navigation

Confined Spaces

Learning Plan - Confined Spaces

Self-Assessment - Confined Spaces

Weld Flash

Learning Plan - Weld Flash

Self-Assessment - Weld Flash

The Safety Office

Learning Plan - The Safety Office

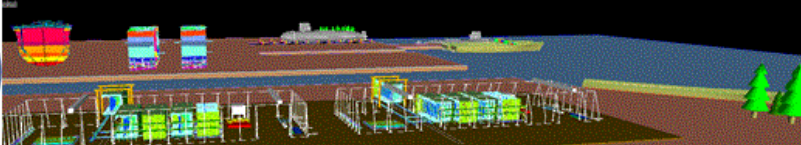

Self-Assessment - The Safety Office

QC-QA

Learning Plan - QC-QA

Learning Plan - Confined Spaces

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Shipyard Orientation Program

Learning Plan #2

CONFINED SPACES

Information

Overview

In this lesson you will learn to identify confined spaces, begin to understand the various hazards they represent and what the term "gas-free" implies with respect to confined spaces

Target Competency

A thorough understanding of the types and hazards of confined spaces.

You will demonstrate your competence:

- by being able to identify a confined space
- by being able to describe the various hazards of confined spaces
- by being able to correctly lists the requirements for a gas-free certificate.

Your performance will be successful when:

- you successfully find the confined space in the virtual shipyard
- you pass the Confined Spaces quiz

Learning Objectives

- Name various types of confined spaces
- Identify a confined space within the virtual shipyard
- Understand the "gas-free" process.

Material Flow

Basic Terminology

Last updated 16 Feb 2012

LibraryHelpClasslistGroups

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Following sites:

try.

and follow the directions that will be found by TIES, and type the LINK URL into your browser

Tools

LinksQuick PropertiesTimeLiner Playback

UnselectedPropertiesDisplayTools

Properties

Item	ShipConstructor	Hyperlinks	Entity Handle
Property			
Name		HotLink01	
URL		http://training.shipconstructor.com/uw/HotLink01.htm	
Category		Hyperlink	

EE yourself on the Self-Assessment task attached to this

graham.chamberlain@uw.edu.
classroom and VOIP so that the course is worth this effort by

.... And then guides the learner through a set of on-line or virtual shipyard exploratory activities.

My HomeLogoutEmailDiscussionsNewsOnline Rooms

WELCOME Colleges Shipyard Orientation Program (NSRP)
The Johnson/Shipcon UW campuses

Course HomeContentDropboxGrades?

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Self-Assessment - Confined Spaces
Weld Flash
Learning Plan - Weld Flash
Self-Assessment - Weld Flash
The Safety Office
Learning Plan - The Safety Office
Self-Assessment - The Safety Office
QC-QA
Learning Plan - QC-QA
Self-Assessment - QC-QA

Welcome, Graham!Wednesday, March 7, 2012Calendar

WELCOME Colleges Shipyard Orientation Program (NSRP)
The Johnson/Shipcon UW campuses

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Learning Plan - Weld Flash
Self-Assessment - Weld Flash
The Safety Office
Learning Plan - The Safety Office
Self-Assessment - The Safety Office
QC-QA
Learning Plan - QC-QA
Self-Assessment - QC-QA
Material Flow
Learning Plan - Material Flow
Self-Assessment - Material Flow
Basic Terminology

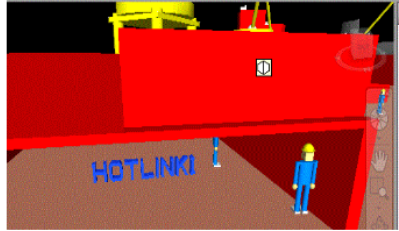
Learning Plan - Confined Spaces
Shipyard Orientation Program Learning Plan #2 CONFINED SPACES
Information
Overview
In this lesson you will learn to identify and what the term "gas-free" implies v
Target Competency
A thorough understanding of the ty
You will demonstrate you
by being able to identify
by being able to describe
by being able to correctly
Your performance will b
you successfully find the
you pass the Confined S
Learning Objectives
a. Name various types of
b. Identify a confined spa
c. Understand the "gas-fr

Learning Plan - Confined Spaces
Back to Table of Contents

Learning Activities
1. EXAMINE the images at [USMRA](#).
2. Use the internet to examine the information at the following sites:
• [Marine industrial Safety is a worldwide concern](#).
• [Gas free certificates are required throughout industry](#).
• [Gas free processes](#).
• [What is a Confined Space?](#)
3. NAVIGATE into the virtual 3D shipyard.
4. LOCATE and enter the red SAFETY OFFICE building, and follow the directions that will be found by SELECTING the HOTLINK1 block, click on PROPERTIES, and type the LINK URL into your browser

HomeViewpointReviewAnimationViewOutputItem Tools

set ALLSelect AllSelect SameQuick FindOptionsSelectSelection TreeSelect & SearchVisibilityDisplayTools



Properties
ItemShipConstructorHyperlinksEntity Handle
PropertyValue
NameHotLink01
URLhttp://training.shipconstructor.com/uw/HotLink01.htm
CategoryHyperlink

5. Once you have completed the above activities, SCORE yourself on the Self-Assessment task attached to this lesson.
6. Now COMPLETE the Confined Spaces QUIZ.


*If you experience any difficulties during trialing this course, please email graham.chamberlain@uwc.edu. Graham can edit the D2L files, fix links and work with you via a virtual classroom and VOIP so that the course is worth this effort by you.
Thank you!*

Last updated 16 Feb 2012

Assessments

There are 2 kinds of assessment for each set of activities.

First, there is a self-assessment...

 **Colleges**
The flashman/stephane UW computer

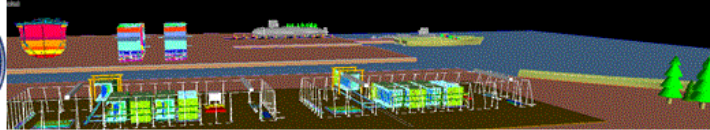

Shipyard Orientation Program (NSRP)

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Shipyard Orientation Program (NSRP)
[Collapse All](#) [Expand All](#)

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 - [Self-Assessment - Navigation](#)
- Confined Spaces
 - [Learning Plan - Confined Spaces](#)
 - [Self-Assessment - Confined Spaces](#)
- Weld Flash
 - [Learning Plan - Weld Flash](#)
 - [Self-Assessment - Weld Flash](#)
- The Safety Office
 - [Learning Plan - The Safety Office](#)
 - [Self-Assessment - The Safety Office](#)
- QC-QA
 - [Learning Plan - QC-QA](#)
 - [Self-Assessment - QA-QC](#)
- Cranes Trains & Crushing Objects
 - [Learning Plan - Cranes, Trains & Crushing Objects](#)
 - [Self-Assessment - Cranes, Trains & Crushing Objects](#)
- Material Flow
 - [Learning Plan - Material Flow](#)
 - [Self-Assessment - Material Flow](#)

Self-Assessment - Material Flow
[Back to Table of Content](#)



Shipyard Orientation Program
Self-Assessment Task #7
MATERIAL FLOW


Target Competency
An understanding of how material stocks move from Receiving to a launching.

Directions
In this performance assessment task you will identify given stocks and profiles within both the receiving area and various vessels under construction.

Rating Scale
3 proficient skill level
2 emerging skill level
1 beginning skill level


Scoring Guide	
	Criteria
1	you can fly around within the virtual shipyard model
2	you can identify PL10 plate stocks in both the receiving area and on a vessel
3	you can locate a 250x90x8 PFC profile in Receiving.
3	you can locate an LU 75x50x7 profile in a vessel.

Total Points _____



..... And second, there is an automatically marked quiz.

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
Instructions

- ▶ This page lists all current, future and past quizzes.
- ▶ To take a quiz, click on its name

Legend

- Submissions
- Quiz Reports
- Password Protected
- New Feedback
- Old Feedback

Shipyard Orientation Program (NSRP) - Quiz List

 [Quizzes Home](#)

Current Quizzes	Attempts
Navigation Quiz always	0 / 3
Confined Spaces Quiz always	0 / 3
Weld Flash Quiz always	0 / 3
The Safety Office Quiz always	0 / 3
QA-QC Quiz always	0 / 3
Cranes, Trains & Crushing Objects Quiz always	0 / 3
Material Flow Quiz always	0 / 3
Basic Terminology Quiz always	0 / 3
Environmental Compliance Quiz always	0 / 3
Ergonomic Issues Quiz always	0 / 3

Example Quiz

Confined Spaces Quiz - Edit

[Quiz List](#)[Edit](#)[Grade](#)[Reports](#)[Stats](#)[Preview](#)[Properties](#)[Restrictions](#)[Attempts](#)[Objectives](#)[Submission Views](#)[Reports Setup](#)[Layout/Questions](#)[Add/Edit Questions](#)[Save Quiz](#)

Questions Per Page

Place questions per page. [Go](#) [?](#)

Paging: ☐ Prevent moving backwards through pages [?](#)

Quiz Layout

[Edit Values](#)

Page	Name	Type	Points	Diff	Bonus	Mandatory
1	Q1. Is a tank with 3 open access covers a confined space?	T/F	20	1		
1	Q2. We require 21% oxygen in the air to stay alive	T/F	20	1		
1	Q3. There are often no warning signs before one becomes ...	T/F	20	1		
1	Q4. When is an emptied fuel tank NOT considered a confin...	MC	20	1		
1	Q5. When entering a confined space	MC	20	1		
Total			100			



UNIVERSITY OF WISCONSIN

Marinette

A Campus of the University of Wisconsin Colleges

GAS FREE CERTIFICATE

Copy 1 of 4

COMPARTMENT

HULL #302 - #4 BALLAST TANK

EXPIRY

18 March 2011

TESTER

George C.

NOTES

Maintain 2 fresh air + 1 exhaust fan.

Other Hazards

Possible painting l/c still 17th

Date

14 Mar 2011

O₂

20%

CO₂

0%

C_nH_{2n+2}

0%

SIGNATURE



LIFTING APPLIANCE CERTIFICATE

ITEM

4 ton Electric Chain Hoist

EXPIRY

16 Jan 2012

Ser# SHC-4-2556-3

Location: Bldg 150

TESTER



SKETCH



Date

16 Jan 2011

RESTRICTIONS

None

SIGNATURE



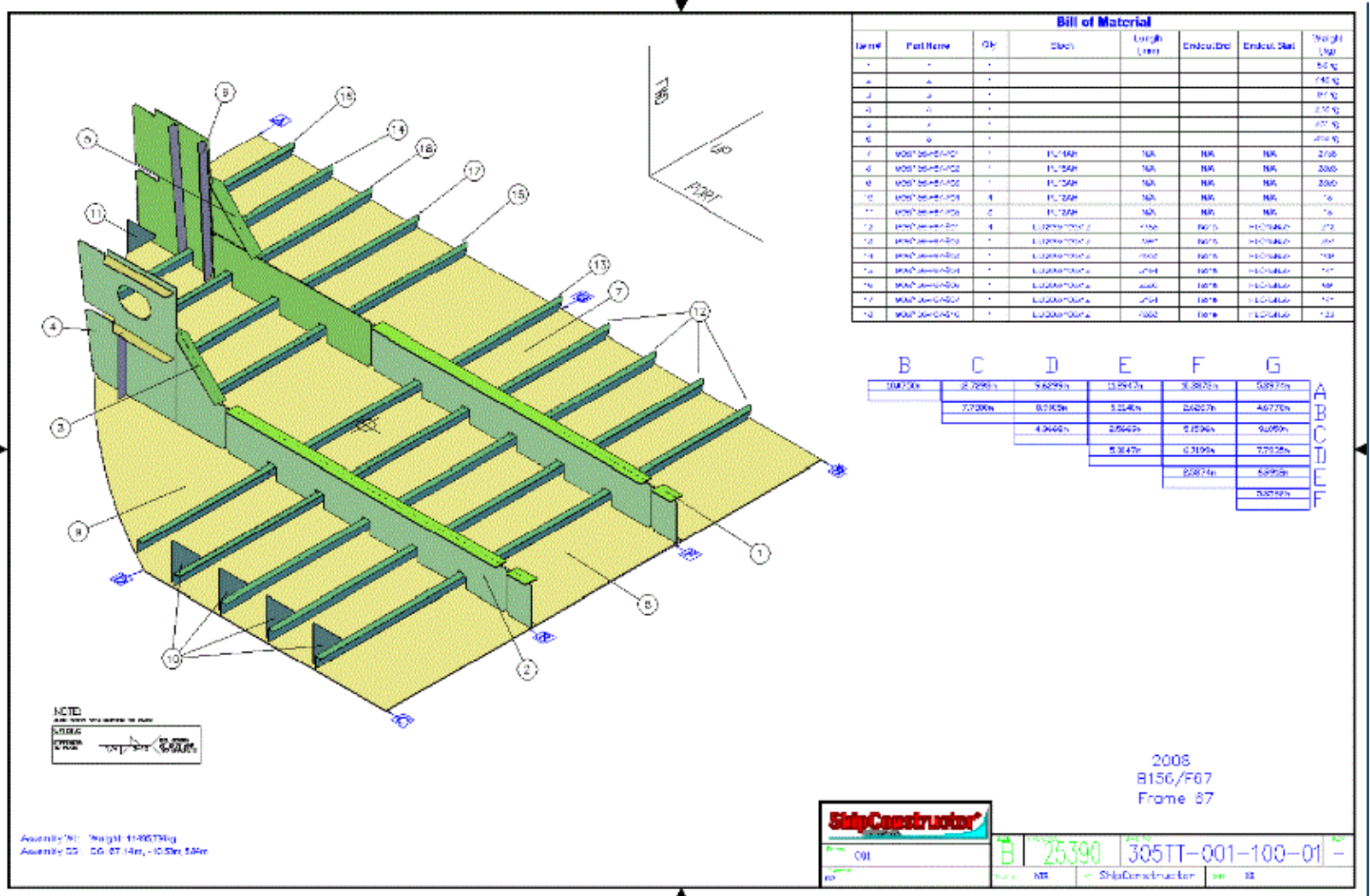
G&N Shipyard



Copy 1 of 2

Learners are exposed to shipyard processes and sample example forms.

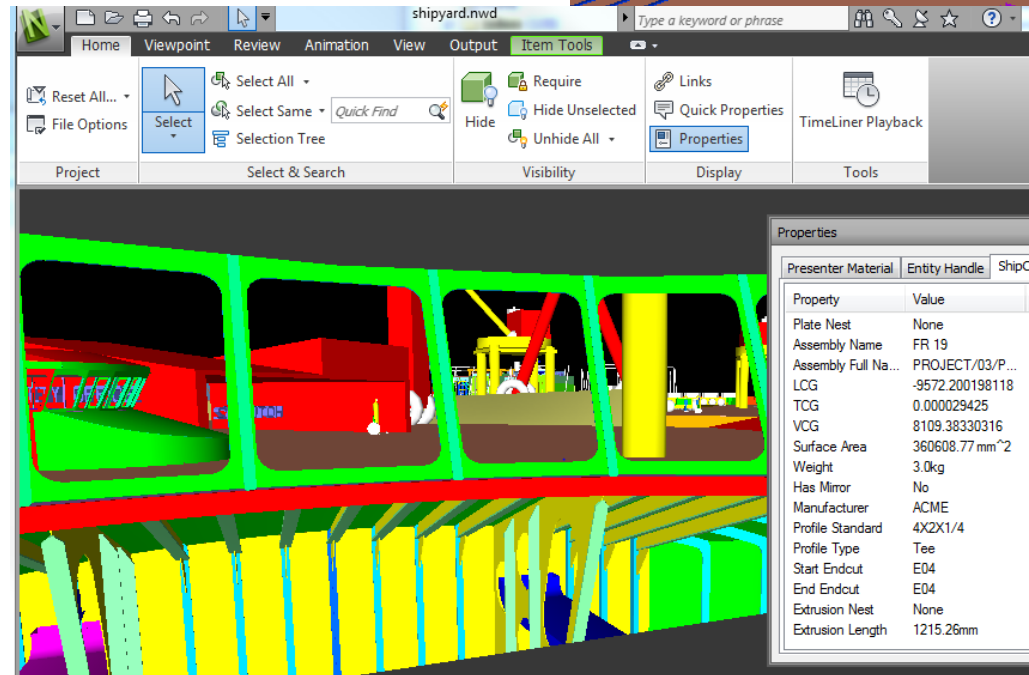
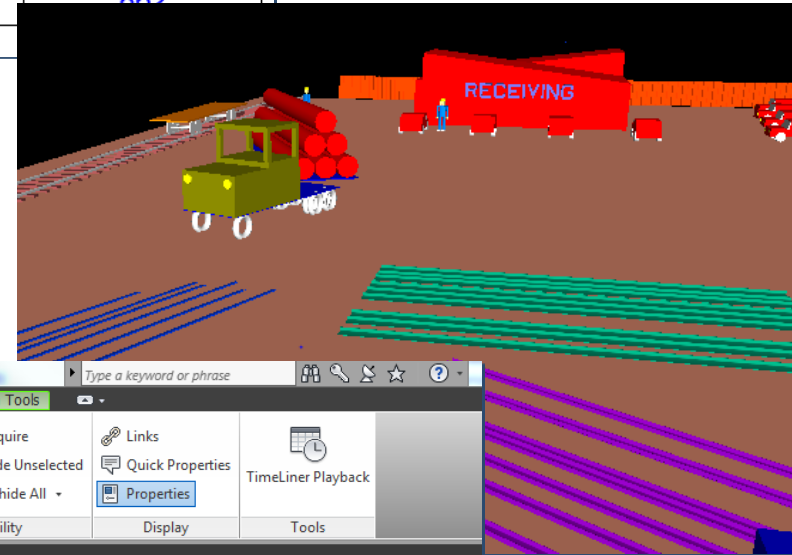
Learners are exposed to sample Production Drawings



Bill of Material

Item	Part Name	Qty	Stock Name	Weight (kg)	Length (mm)
1	250-FlgUp	2	PL06	2	N/A
2	A20-Pa02-P20	1	PL10	164	N/A
3	A20-Pa02-S04	2	LE 80x8	8	862

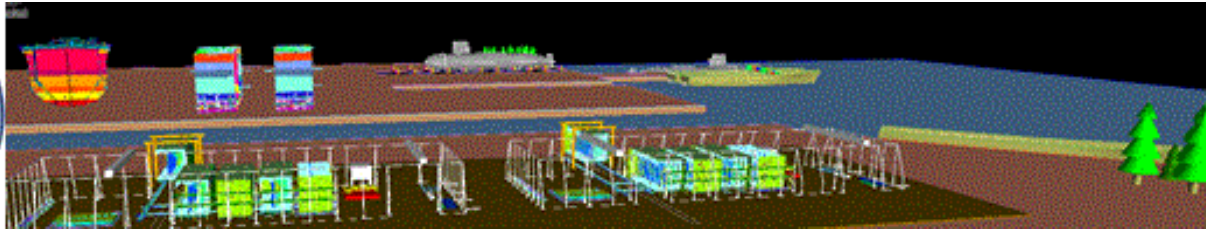
Learners follow material stocks from RECEIVING to a drawing's BOM to the vessel.





Safety

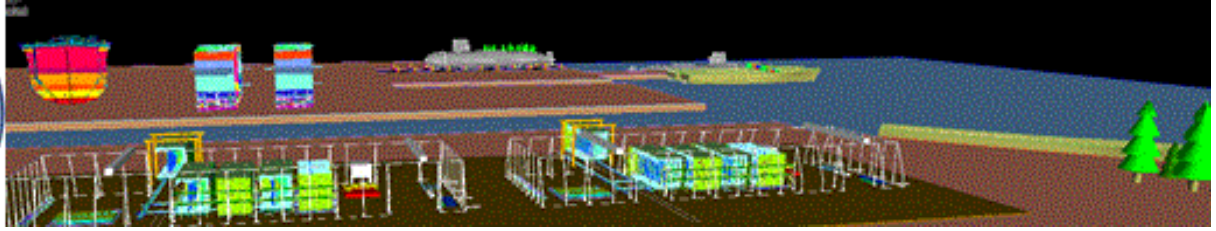




Tech Transfer

- Testing completed April 30
- Online access to course is available to yards now through bulk packages of user IDs and passwords
- Online access to individual registrants will be available as soon as an independent registration interface is established

Questions?



Thank you!

Paula Langteau

Campus Executive Officer & Dean
University of Wisconsin – Marinette
Marinette, Wisconsin

paula.langteau@uwc.edu



