

OSSU ENDS MONITORING REPORT: JUNE 8, 2015

RUHS & RTCC SENIOR PROFILES

OSSU ENDS STATEMENT

Policy Title 1.0 Mission Statement

Students have the knowledge, skills and tools to be prepared for the next stage of their lives, which justify the resources invested by the community.

Further, our core focus is on the following:

1.1 Critical thinking: Students creatively apply experiences and critical analysis to solve problems and make informed decisions.

1.2 Foundational Knowledge: Students possess comprehensive knowledge of a core curriculum in the following areas:

1.2.1 Reading, writing and communication

1.2.2 Mathematics

1.2.3 Science

1.2.4 Social studies

1.2.5 Life Skills

1.2.6 The Arts

1.3 Ability to Adapt: Students are adaptable, resilient and can manage change.

1.4 Information Technology: Students use and apply information and technology appropriately, effectively and objectively.

Superintendent's Interpretation:

In order to properly measure student progress requires the use of longitudinal data that is directly aligned to the OSSU's Ends statement. Moreover our teachers are the most knowledgeable source of information in determining progress in relation to the Ends statement. The data sources shall include: (1) report cards; (2) data walls; (3) senior profiles for RUHS and RTCC; and (4) Board direct inspections. This report focuses on longitudinal outcomes of senior students attending RUHS and RTCC.

Evidence:

The following data was collated and tracked to address the OSSU Boards' Ends statement:

RUHS

- Class size
- 4 Year and 6 Year Graduation Rates
- Average Credits Earned (21 is Vermont State Graduation Minimum)
- Free & Reduced Lunch Counts
- % Students attending RTCC

- % of Students with Disabilities (on an IEP)
- Average SAT Scores (Reading, Mathematics, Writing)
- % Students who took SAT exam
- # Students who took AP courses and exams
- Honors Graduation Rates
- Habits of Mind, Heart, Work scores

RTCC

- Graduates in Post-Secondary Education, Employed, or in Military
- % Students earning Industry Recognized Certifications (IRCs)
- # Students completing College level courses
- # Students completing Introduction to College Studies
- # Students completing Dual Enrollment courses
- State-Approved Program Assessments data:
 - Automotive Technology, Building Trades, Business Management, Culinary Arts,
 - Environmental Resource Management, Graphic Arts, Health Careers
- 6 Month Student Follow-Up Survey results

RUHS Summary of Findings:

- Average student earn 6 more credits than required to graduate
- 4-Year Graduation Rate below State average, but 6-Year Graduation Rate at or above State average (Senior Project impact)
- Free and Reduced Lunch (FRL) have increased and remained high
- SAT Scores continue to fluctuate depending on cohort. Remain at State average. Exam changing in 2015
- Honors graduation rate remaining constant (12%)
- Maintained increased number of seniors taking AP courses. 2013/2014 unusually low pass rate. Tracking this year's data to ensure not a continued trend in 2015 (and beyond)
- Habits of Mind, Work, Heart remained fairly constant from 2013. Time needed to determine trend lines

RTCC Summary of Findings:

- Very high graduation rate (99%)
- Very high placement rate (95%)
- Significant completion rate for IRCs (75%, 390 IRCs earned)
- Very strong State Approved Technical Assessments (TSAs) Rate
- Growing College/Dual Enrollment course completion rate

Compliance:

Overall, RUHS and RTCC longitudinal data sets demonstrate strong student outcomes in Ends-related areas. RTCC continues to demonstrate positive trends lines in targeted growth areas. RUHS remains strong but needs to continue to watch cohort effects in the areas of AP & SAT Scores and 4-Year Graduation rates.

RUHS 12th Grade, Senior Profile: Current year and longitudinal data

Indicator	08-09	09-10	10-11	11-12	12-13	13-14	14-15	Notes
# Students in Class	74	67	88	78	63	67	65	
4 Yr Grad Rate	88%	76%	77%	88%	83%	80% (AOE to verify)	TBD	VT average over these years is about 87%
6 Yr Graduation Rate	Forthcoming	91%	90%	94%	TBD	TBD	TBD	
Avg Credits Earned	25	26	26	26	26	26	TBD	
F/R Lunch	23%	26%	33%	33%	25%	42%	40%	Increasing trend
RTCC	43%	40%	44%	50%	49%	52%	29%	
IEP			33%	34%	23%	22%	19%	
RU at RTCC on IEP	52%	32.6%	52%	50%	46%	22%	42%	RU @ RTCC = more diverse student profiles
SAT								
Avg Overall	RU 1544 Nat 1509	RU 1539 Nat 1509	RU 1477 Nat 1500	RU 1460 Nat 1498	RU 1523 Nat 1498	RU 1416 Nat 1497	TBD	
Avg Reading	RU 521 Nat 501	RU 527 Nat 501	RU 496 Nat 497	RU 492 Nat 496	RU 505 Nat 496	RU 485 Nat 497	TBD	
Avg Math	RU 520 Nat 515	RU 513 Nat 516	RU 496 Nat 514	RU 490 Nat 514	RU 512 Nat 514	RU 465 Nat 513	TBD	
Avg Writing	RU 503 Nat 493	RU 499 Nat 492	RU 485 Nat 489	RU 478 Nat 488	RU 506 Nat 488	RU 466 Nat 487	TBD	
% who took the SAT	65%	68%	61%	56%	63%	60%		
ACT Scores (RU/VT)	n/a	n/a	21.3/22.8	21.3/23	23.9/23.7	21.8/22.8		N less than 10 each yr.
AP Exam Pass/Total	30/42	17/32	15/20	13/16	23/41	12/28	22.2/23.2	Pass = 3, 4, or 5 Total = completed exam
# of Seniors who took RU AP Class	24	17	15	11	21	23		
Average GPA	NA	NA	2.48	2.52	2.74	2.65		
Dual Enrollment Courses Taken			14	22	20	26	45	CCV, UVM, RUHS main options
% Graduating w Honors	12%	11%	14%	9%	16%	12%		
Avg Habits of Mind	NA	NA	NA	NA	3.27	3.23		
Avg Habits of Heart	NA	NA	NA	NA	3.39	3.27		
Avg Habits of Work	NA	NA	NA	NA	3.11	2.91		

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**RTCC Senior & Longitudinal Data
2015**

✦ **95% of RTCC graduates or in college, employed or in the military**

✦ **Industry-Recognized Certifications (IRCs)**

Data from 1999 identified only one student who achieved an industry-recognized credential (registered apprenticeship).

For the last several years over 75% of students earn at least one IRC (many earn multiple certifications).

For the last three years, RTCC students have achieved over 300 IRCs annually.

✦ **State-approved Technical Skill Assessment (TSA)**

80% of students in programs that provide TSAs passed their program's assessment.

Environmental Resource Mgmt. pilot year 2012 – highest individual student scores & highest program totals in Vermont. This program has scored at 100% for all years.

Automotive Technology – Issues in past years on one of three assessments have received significant curriculum work resulting in 91% pass rate overall with 3 of 4 assessments completed in the spring of 2014 at 100%.

All students in programs that offer TSAs participate in these assessments (as opposed to some other technical centers that do not include all students).

✦ **College Courses & Credits**

Over 200 students have completed Introduction to College Studies since RTCC began participating in the program pre-2008.

In 2014, 15 students earned college credit through dual enrollment programming for a total of 45 college credits earned overall.

✦ **State & Federal Technical Education “Targets”**

RTCC programs and outreach efforts have worked to meet/exceed “tech ed targets” including 11th grade math and reading, graduation rates, non-traditional placement, IRC attainment. RTCC meets or exceeds every target except incoming 11th grade math proficiency and, interestingly enough, we are below target on enrollment non-traditional students with disabilities.

**RTCC Longitudinal Data Summary
2008 - 2014**

	2008	2009	2010	2011	2012	2013	2014	Totals
Graduates in post-secondary education, employment or military	95%	92%	92%	91%	94%	96%	95%	93%
% of Students earning Industry Recognized Certification (IRC)	50%	50%	50%	73%	76%	75%	83%	62%
# of Students earning Industry Recognized Certification (IRC)	65	65	58	95	104	97	97	491
# of Students Completing Introduction to College Studies Course	28	33	25	27	20	N/A	N/A	133
# of Students Completing Other College Courses	8	25	15	15	10	9	15	97
# of Students Earning Dual Enrollment Credit			8	7	14	26	15	70

% Pass State-Approved Program Assessment	2010	2011	2012	2013	2014
Automotive Technology		8%	53%	18%	91%
Building Trades	78%	29%	33%	88%	89%
Business Management		78%	88%	100%	37% (re-pilot)
Culinary Arts	100%	62%	80%	75%	100%
Environmental Resource Mgmt.			100%	100%	100%
Graphic Arts				100%	80% (re-pilot)
Health Careers					64% (pilot)
Average		44%	71%	81%	80%

It is important to note that RTCC tests 100% of our students whereas some schools only test seniors or other select groups of students. Given this, our test scores are even more impressive.

**Center-wide Follow-up of 2013-2014 RTCC Graduates
95% Placement Rate**

Status	Number	Percentage (rounded)
Related Post-Secondary Education	19	28%
Unrelated Post-Secondary Education	5	7%
Employment in a Field Related to Technical Program	25	36%
Employment in a Field Un-related to Technical Program	12	17%
Military	5	7%
Other¹	3	4%
Total	69	99%²

1 not employed and not enrolled in post-secondary education

2 all students counted, percentages rounded

Industry-Recognized Credentials Earned by RTCC Students in 2013-2014

Program	Industry Recognized Credential	# of students that received IRC
Automotive Technology	Valvoline Lubrication Certification*	13
Automotive Technology	VT DMV State Inspection	7
Automotive Technology	GST	8
Building Trades	OSHA 10	12
Building Trades	First Aid	3
Building Trades	Associated General Contractors Certificate	3
Building Trades	Basic Adult CPR	3
Business Management	LLT-B Taxes (basic)	7
Business Management	LLT-E Taxes (ethics)	9
Business Management	IRS Confidentiality Training (LLT)	2
Business Management	OSHA 10 - Career Safe On-Line	10
Culinary Arts	ServSafe1 L2	8
Diesel Technology	National Automotive Student Skills Standard Assessment	NASSSA - listed below
Diesel Technology	Diesel Engines (TEP)	7
Diesel Technology	Truck Brakes (TB) (TD)	0
Diesel Technology	Truck Suspension and Steering (TSS)	3
Diesel Technology	Truck Electrical (TE)	4
Diesel Technology	OSHA 10	7
Diesel Technology	OSAH Mines & Quarries (MSHA)	10
Diesel Technology	10 Stud Hub	0
Diesel Technology	CDL	0
Environmental Resource Mtg.	Game of Logging 1	10
Environmental Resource Mtg.	Game of Logging 2	9
Environmental Resource Mtg.	Game of Logging 3	3
Environmental Resource Mtg.	Game of Logging 4	3
Environmental Resource Mtg.	OSHA 10	16
Environmental Resource Mtg.	Stihl Power Equipment – Bronze*	3
Environmental Resource Mtg.	Woodmizer Sawmill Operator*	16
Environmental Resource Mtg.	American Red Cross – 1 st Aid & CPR	13
Health Careers	Blood Borne Pathogens Training	0
Health Careers	First Aid/CPR/AED	12
Health Careers	License Nursing Assistant	12
Human Services	First Aid/CPR/AED	10
Public Safety & Criminal Justice	Management of Aggressive Behavior (MOAB)	15
Public Safety & Criminal Justice	Traffic Control-Flagger*	0
Public Safety & Criminal Justice	DHART Helicopter Landing Zone Training*	15
Public Safety & Criminal Justice	Blood Borne Pathogens Training	15
Public Safety & Criminal Justice	First Aide, CPR, Adult/Child/Infant	15
Public Safety & Criminal Justice	Automatic External Defibrillator (AED)	15
Public Safety & Criminal Justice	Wilderness First Aid*	0
Public Safety & Criminal Justice	Rope Rescue Technician*	15
Public Safety & Criminal Justice	Ice Rescue Technician*	15
Public Safety & Criminal Justice	Emergency Vehicle Driver Training*	15
Public Safety & Criminal Justice	Oleo-resin Capsicum (MACE) Training*	15
Public Safety & Criminal Justice	FEMA NIMS 100-200	15
Public Safety & Criminal Justice	Shaken Baby Syndrome*	15
Agricultural Technology	OSHA 10*	2
Total number of IRC's earned by students at RTCC		390

NOTE: * denotes IRCs that are recognized by industry but not yet approved by VT DoE
RTCC 6 Month Follow-up 2013-2014 Graduates

Program	Related Post-Secondary	Unrelated Post-Sec.	Related Employ	Unrelated Employ	Military	Other	#
Agricultural Technology			2	1			3
Automotive Technology	2		3	1			6
Building Trades	1	1	2	1			5
Business Management	3		1	1		1	6
Criminal Justice & Public Safety	2		1	3	4		10
Culinary Arts	2		1	1			4
Diesel Technology	3		1	1		1	4
Digital Filmmaking	1	1	2	1			5
Education & Social Services	1		2	1			4
Environmental Resource Management	1		5	1	1		12
Graphic Arts	2	2				1	2
Health Careers	1	1	5				7
Total Number	19	5	25	12	5	3	69
Total Percent	28%	7%	36%	17%	7%	4%	95% placement

Notes:

Industry-Recognized Credentials (IRC)

1. IRCs include those approved by the AoE and those that are recognized by business and industry but not yet approved by AoE. Total *number* of IRCs earned by RTCC students in 2014 = 390.
2. Data from 1999 identified only one student who achieved an industry-recognized credential (registered apprenticeship).
3. Data from 2003 identified 23% of RTCC students achieved such credentials (e.g. LNA, ECA, Cisco, A+, CDL, State Motor Vehicle Inspection).
4. Between 2004 and 2007 40% to 50% of students attained an IRC. In 2014 only three programs do not offer students a chance to earn an IRC (Digital Filmmaking, Graphic Arts and Spanish-Global Business Management). Now, over 75% of all students earn at least one IRC.

Introduction to College Studies, Related Courses and Dual Enrollment

1. Over 200 students have completed Introduction to College Studies since RTCC began participating in the program pre-2008.
2. In 2013 the Introduction to College Studies program: ceased to award a voucher for a 3 credit course thus reducing student incentive to participate (all students were given access to dual enrollment courses beginning in the 2013 school year); and the ICS program shifted focus to sophomore year students in order to better provide college and career planning.