

**SOUTHERN WEST VIRGINIA COMMUNITY AND TECHNICAL COLLEGE  
BOARD OF GOVERNORS  
SPECIAL MEETING OF JULY 25, 2013**

**ITEM:** Follow-Up Report to the Post-Audit Review for Mine Management, Associate in Applied Science Degree Program

**RECOMMENDED RESOLUTION:** RESOLVED, That the Southern West Virginia Community and Technical College Board of Governors receive and approve the follow-up report to the Post-audit Review for Mine Management, Associate in Applied Science degree program, and its submission to the West Virginia Council for Community and Technical College Education.

**STAFF MEMBER:** Bill Alderman

**BACKGROUND:**

At its April 19, 2011 meeting, the Southern West Virginia Community and Technical College Board of Governors unanimously approved continuation of the Mine Management, Associate in Applied Science degree program with corrective action in accordance with the provisions of the West Virginia Council for Community and Technical College Education, Title 135, Procedural Rule, Series 37.

At its August 18, 2011 meeting, the West Virginia Council for Community and Technical College Education approved the post-audit report for the A.A.S. in Mine Management program and concurred with the recommendation to continue the program. The Council requested a follow-up report on the number of graduates, their placements, and details addressing specific assessment measures and how the results are utilized for program improvement.

Included in this report is the information requested by the West Virginia Council for Community and Technical College Education.

**POST-AUDIT FOLLOW-UP REPORT**  
**2012-2013**  
**Southern West Virginia Community and Technical College**  
**Program Without Specialized Accreditation**

**Program: Mine Management, Associate in Applied Science**

The 2011 Post-audit Review of the A.A.S. in Mine Management resulted in a continuation at the current level of activity with corrective action. The West Virginia Council for Community and Technical College requested a follow-up report addressing graduates, placements, and specific assessment measures and how the results are utilized for program improvement.

The specific assessment measures are the standards set by the program coordinator and applicable federal and state agency representatives that serve on the Mine Management Advisory Council. Also, included are industry managers at various levels. These goals are measured using an Assessment Matrix that demonstrates a skill-set conducive precisely to the mining industry (See Mine Management Assessment Appendix).

The industry officials, and all advisory members, are utilized by the mine management program and attend the annual college advisory committee meeting. Chief Executive Officers and upper management have provided input and approved the current curriculum changes and support the program through employee reimbursement. Many companies notify the program coordinator about job openings and availability.

The program meets a corroborated industry demand and graduates can attain profitable employment, earning better than average wages for our state. Most students are aware of the job opportunities as they become available. It is the recommendation of the Department of Business Administration, that the A.A.S. in Mine Management be granted continuance. The program is offered 100% online and was initiated to accommodate the current work force and to prepare the next generation of mine managers. Recruitment is continuous for students to complete the Southern West Virginia Community and Technical College's A.A.S. in Mine Management. The program offers three formats; trimester – 1.5 years, traditional – 2.0 years, and part-time – 2.5 years, all with the modified reduction to 60 credit hours.

Graduate numbers continue to increase and placement is 99% for the graduates to date. Enclosed are the numbers specific to these two categories as well as an assessment matrix used to measure program improvement. The current advisory council which is compiled of 45 members from various upper management levels, educators, and collegiate personnel are included with regular consultation, providing invaluable insight into the program and its continuous improvement. The advisory council provides regular updated advice, most often times monthly, rather than the traditional annual meeting which is required. The industry officials, and all advisory members, are utilized for the mine management program, its curriculum, and potential job placement. An extraordinary supportive group of advisors attends the annual college advisory committee meetings.

The Program Coordinator has regular involvement with many Mine Managers, CEOs, Safety Managers, Training Directors, industry officials (state and federal mine inspectors), and Human Resource Managers to ensure current needs are being built into the curriculum to be taught, applied and assessed, effectively providing the employee and employer with a beneficial skill set exclusively designed to build a robust nucleus of managerial and leadership skills for their management team. Many student/employees must place their individualized program plan, which is designed at the initial advising/registration process and graduation, on hold due to rapid advancement within their companies which takes precedence of their time and emphasis as they become acclimated to their new responsibilities and duties which are often a direct result of particular skills set being met from the major program core courses, which necessitates advancement before degree completion to benefit the company in a compulsory role.

**Mine Management, A.A.S. Program**  
**Enrollment, Graduates, Graduate Placement**

<u>Academic Year</u>	<u>Enrollment</u>	<u>Graduated</u>	<u>Graduate Placement</u>	<u>Counties Served</u>
<b>2009</b> -Fall	5		Aracoma Coal Company	Martin, KY
09-Spring	3		Arch Coal Company	Pike, KY
			Alpha Coal Company	Barbour
<b>2010</b> - Fall	10		Brooks Run Mining	Boone
10-Spring	10		Cliffs Natural Resources	Braxton
10-Summer	11		Coal Mac, Inc	Clay
			Coal River Energy Group	Fayette
<b>2011</b> - Fall	23	3	Consol Energy	Greenbrier
11-Spring	25	4	Hampden Coal Company	Kanawha
11-Summer	13		Independence Coal Company	Lincoln
			Long Branch Mining Company	Logan
<b>2012</b> - Fall	55	10	Massey Energy	Marshall
12-Spring	50	7	Mechel Bluestone	Mason
12-Summer	22		Patriot Coal Company	McDowell
			Pocahontas Mine	Mingo
<b>2013</b> - Fall	37		Rockhuse Creek Development	Nicholas
13-Spring	52	7	Robinson Creek	Putnam
13 - Summer	15		Sidney Coal Company	Raleigh
			Southern WVCTC/ Mine Academy	Wyoming
<b>2014</b> - Fall	45		United Coal Company	

## Assessment Matrix for Measuring Course Goals Mine Management

Goals 1-6					
Evaluation Method	When Conducted	Person Responsible	Results	Audience for Results	Use of Results
Pre-test	When each class section begins.	Faculty	Measures the level of competency in each class.	Faculty, students, employers, potential employers.	Helps determine areas of proficiency and/or deficiency. Faculty may plan more effectively to target areas needed for improvement.
Weekly Blackboard assignments and Weekly Discussion Posts.	Each week of designated class section time period.	Faculty	Measures and monitors progress each week pertaining to course objectives.	Faculty, students, and any applicable reporting agency, such as state or federal pertaining to employment.	Course weighted average, final grade determination, and instructor evaluation for effectiveness and efficiency.
Quizzes and Exams	Periodic	Faculty	Measures and monitors progress each week pertaining to course objectives.	Faculty, students, and any applicable reporting agency, such as state or federal pertaining to employment.	Course weighted average, final grade determination, and instructor evaluation for effectiveness and efficiency.
Post Test	Final Semester	Program Coordinator	Measure progress from beginning to end.	Faculty, Program Coordinator	Allows thorough review of all areas of program. Adjustments may be made within department of suggestions to other departments.

**Notes:**

- Goal 1 The program provides for those that seek entry-level managerial positions, both surface and underground, in the mining industry.
- Goal 2 The program provides for those that seek mid-level managerial positions, both surface and underground, in the mining industry.
- Goal 3 Demonstrate mastery of theoretical principles and practical methodologies associated with mine management.
- Goal 4 Demonstrate skills in critical thinking, financial evaluations of operations, and regulatory agencies.
- Goal 5 Demonstrate knowledge of planning, organizing, direction, and leading within the industry.
- Goal 6 Demonstrate a global energy perspective on economic issues relative to all applicable mining industry's competition models