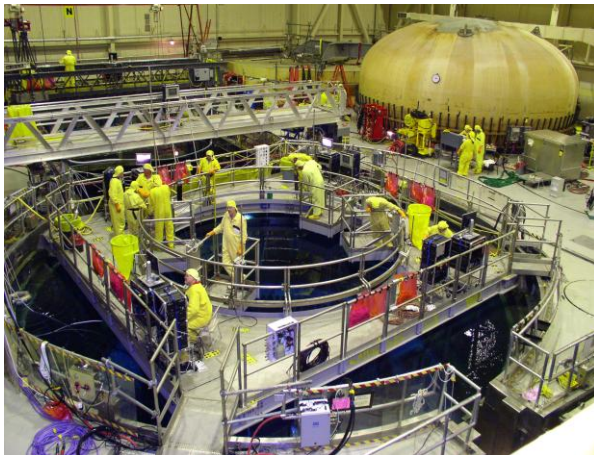




Removing shield blocks on refueling floor of reactor building



Detensioning reactor vessel head bolts



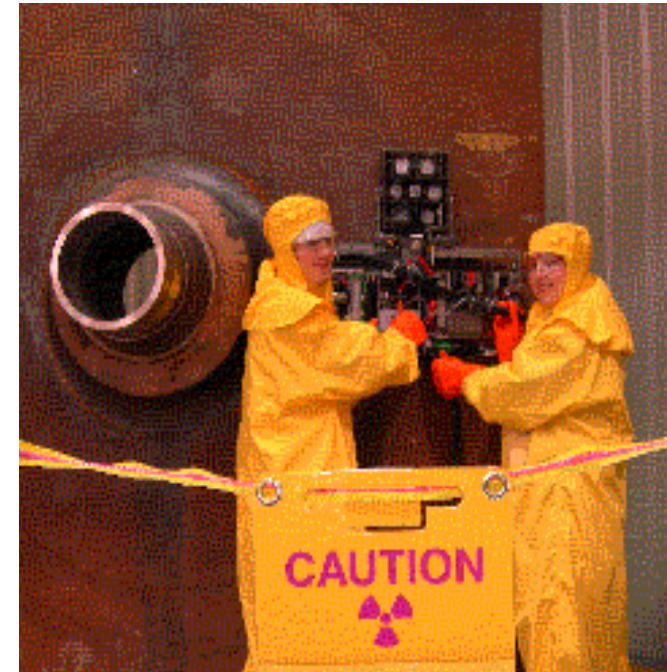
Working on platform above reactor vessel

For more information about the
Nuclear Maintenance Technology program, please contact
R. B. Richey
(910) 362-7401
rrichey@cfcc.edu



NUCLEAR TECHNOLOGY

ASSOCIATE IN APPLIED SCIENCE



**Cape Fear
Community
College
North Campus
Castle Hayne, NC
www.cfcc.edu**

NUCLEAR TECHNOLOGY

ASSOCIATE IN APPLIED SCIENCE

The Nuclear Technology program prepares individuals to become qualified field service technicians who perform maintenance, repairs, and modifications to licensed nuclear facilities in the United States and around the globe which have light water reactors that are shutdown for refueling.

FACILITIES

Most of the Nuclear Technology academic courses are taught in classroom and lab facilities of CFCC on the North Campus. The co-op semester may include training at GE-Hitachi facilities in Wilmington, North Carolina, at a boiling water reactor full-scale mockup in San Jose, California, and at nuclear plants in refueling outages at sites throughout the US and overseas.

EMPLOYMENT OPPORTUNITIES

Graduates are employed by Granite Services International, a wholly-owned subsidiary of the General Electric Company, as entry-level Reactor Service Technicians earning \$15 to \$20 per hour. There is significant overtime work plus expense-paid travel to locations throughout the U.S. and world wherever nuclear plants to be serviced are located. In three years, graduates gain the experience to earn premium salaries in the nuclear industry.

REQUIRED CLASSES

ASSOCIATE IN APPLIED SCIENCE

I. General Education Courses		Semester Hours	Credit
ENG 111	Expository Writing		3
ENG 114	Prof Research/Reporting		3
HUM 115	Critical Thinking		3
MAT 121	Algebra/Trigonometry I		3
Social/Behavioral Science Elective (Select one from following)			
ECO 151	Survey of Economics		3
POL 110	Intro Political Science		3
PSY 150	General Psychology		3
SOC 210	Introduction to Sociology		3
II. Major Courses			
ATR 112	Intro to Automation		3
CIS 110	Introduction to Computers		3
ELC 213	Instrumentation		4
HYD 110	Hydraulics/Pneumatics		3
ISC 112	Industrial Safety		2
ISC 130	Intro to Quality Control		3
MAT 122	Algebra/Trigonometry II		3
NUC 110	Nuclear Reactor Systems		3
NUC 120	Nuclear Reactor Theory		4
NUC 130	Applied NDE - Nuclear		2
PHY 131	Physics - Mechanics		4
PHY 132	Physics – Elect & Magnetism		4
WLD 112	Basic Welding Processes		2
WLD 143	Welding Metallurgy		2
III. Other Major Courses			
COE 111	Co-op Work Experience I		1
ELC 117	Motors and Controls		4
ELC 131	DC/AC Circuit Analysis		5
MEC 111	Machine Processes I		3
MEC 130	Mechanisms		3
Total Credits			73

Contact the Lead Instructor for most current information

SEQUENCE OF CLASSES

For those beginning the program in the Fall Semester:

Fall Semester I	Fall Semester II
ATR 112	CIS 110
ELC 131	ISC 130
ENG 111	NUC 120
MAT 121	ELC 213
MEC 111	PHY 132
Spring Semester I	Spring Semester II
ELC 117	COE 111
HUM 115	
HYD 110	
MAT 122	
NUC 110	
Summer Semester I	Summer Semester II
ENG 114	ISC 112
MEC 130	NUC 130
PHY 131	Social/Behav Sci Elect
WLD 112	WLD 143
<i>For those beginning the program in the Spring Semester:</i>	
Spring Semester I	Spring Semester II
ATR 112	COE 111
ELC 131	
ISC 112	
ISC 130	
MAT 121	
WLD 112	
Summer Semester I	Summer Semester II
CIS 110	ENG 114
ENG 111	MEC 130
PHY 131	Social/Behav Sci Elect
	WLD 143
Fall Semester I	Fall Semester II
ELC 117	ELC 213
HUM 115	HYD 110
MAT 122	MEC 111
NUC 110	NUC 120
PHY 132	NUC 130