

Continuing Education Registry

Electrical Courses Approved

June 18, 2014 – August 14, 2014

@ Your Pace Online

2014 NEC Changes - Course #: 8195 – Electrician Core Hours: 16.0

180 Degree Education

#0001 2011 NEC Significant Changes UTE500 - Course #: 8015 –
Electrician Core Hours: 2.0

#0004 2014 NEC Changes UTE600 - Course #: 8213 – Electrician Core Hours: 16.0

#0005 2014 NEC Changes UTE601 - Course #: 8215 – Electrician Core Hours: 8.0

#0006 2014 NEC Changes UTE602 - Course #: 8217 – Electrician Core Hours: 16.0

#0007 2014 NEC Changes UTE603 - Course #: 8219 – Electrician Core Hours: 8.0

AGC of Utah

Reasonable Suspicion Supervisory Training - Course #: 8241 – Electrician Pro Hours: 2.0

BlueVolt

2014 NEC Code Changes, Part II - Course #: 8121 – Electrician Core Hours: 8.0

C2 Consulting, Inc.

An Introduction to OSHA - Course #: 8019 – Electrician Pro Hours: 2.0

JADE Learning

Growing Your Electrical Service Business - Marketing - Course #: 8025 –
Electrician Pro Hours: 4.0

Lockout/Tagout (NFPA 70E: 2012) - Course #: 8243 – Electrician Pro Hours: 4.0

Conductor Ampacity and Calculations (2014 NEC) - Course #: 8245 –
Electrician Core Hours: 4.0

Code Calculations (2014 NEC) - Course #: 8247 – Electrician Core Hours: 4.0

Jones Electrical Solutions

NEC Calculations and Conduit Bending - Course #: 8207 – Electrician Core Hours: 8.0

2014 NEC update - Course #: 8209 – Electrician Core Hours: 8.0

JRC Inc

Lighting Controls - Code Requirement - Course #: 8237 – Electrician Pro Hours: 1.0

Lewellyn Technology

2014 NEC Training 16-hours - Course #: 8027 – Electrician Core Hours: 16.0

Mountainland Applied Technology College

2011 NEC Update Course A - Course #: 8229 – Electrician Core Hours: 8.0

2011 NEC Update Course B - Course #: 8231 – Electrician Core Hours: 8.0

2011 NEC Update Course C - Course #: 8233 – Electrician Core Hours: 4.0

2011 NEC Update Course D - Course #: 8235 – Electrician Core Hours: 4.0

**Utah:**

Corporate Headquarters
501 W. 700 S.
Salt Lake City, UT 84101
PH: 801.366.4100
PH: 800.433.4548
FX: 801.487.7437

Colorado:

4905 "B" Ironton St.
Denver, CO 80239
PH: 303.574.9448
PH: 800.511.7734
FX: 303.574.9389

Idaho:

7292 W Airway Ct
Boise, ID 83709
PH: 208.322.8100
FX: 208.322.5400

Visit us online at: www.emcsolutions.com or www.cwsilver.com

June, 2014

Variable Frequency Drive (VFD) 8 Hour Course (NEC Version)

Energy Management Corporation offer the following course as a public service to professionals involved in the design and maintenance of public and private electrical power systems. The course focuses on various aspects of VFD (motor control) theory, application, and practice, while maintaining power quality within the facility and for the serving utility.

This course is specifically geared to acquainting the student with all information required to properly apply Variable Frequency Drives in accordance with current version of NFPA 70 (The National Electrical Code).

Learning Objectives:

- Understand the basics of motor theory and operation.
- Complete review of all motor reduced voltage starting methods and their proper application per NEC code.
- Develop a strong understanding of NEC motor and motor control code.
- Grounding of motor control devices per NEC code
- Know the concept of VFD theory and design.
- Learn the basics of harmonic theory and power quality problems caused by VFD's. Provide NEC and IEEE 519 compliance.
- Learn basic VFD trouble-shooting and maintenance methods. Learn compliance with UOSH and NFPA 70 E standards (including arc flash).
- Basic and Intermediate Hands-on programming of Variable Frequency Drives with motors.
- Review VFD application fundamentals.

Course Outline:

- 1. Introduction to Motors**
 - Induction Motor Theory
 - Slip Frequency
 - Motor Flux and Torque Characteristics
 - V/Hz Control
 - Torque-Speed and Current-Speed Curves
 - NEC Motor Application Requirements
- 2. Theory of "Soft-Start" Motor Controls**
 - Normal voltage drop in feeder and branch circuits
 - Auto-transformer, Primary Reactor, Wye-Delta, & Part-Winding starters
 - NEC Motor Code:
 - NEC requirements for reduced voltage starters
- 3. VFD (Motor Controls) Theory and Design**
 - Block functional diagrams

"Specializing in Electrical Asset Management."

- Converter theory
 - DC bus characteristics
 - Inverter theory
 - Harmonics, including single-phase input
 - V/Hz, Torque, and Speed control
4. **NEC Motor and Motor Control Grounding**
 5. **NEC Motor Control Code**
 - Introduction
 - Short circuit protection
 - Lock out concerns
 - Differences in overcurrent protection when used on variable frequency drives. Service factor?
 6. **VFD Wiring**
 - Power and Control Wiring
 - NEC Code
 7. **Harmonics**
 - Introduction to Harmonics
 - Deleterious Effects of Harmonics on Power Systems
 - Exhaustive Analysis of all Harmonic Mitigation Options
 - Compliance with IEEE 519 and local codes
 - NEC requirements for nonlinear loads
 8. **VFD Troubleshooting (Hardware)**
 - Normal start-up and commissioning
 - VFD Maintenance
 - VFD Troubleshooting
 - Safety compliance with UOSH and NFP 70 E.
 - Arc flash protection with UOSH and NFP 70 E
 9. **VFD Programming [hands-on training with motor control training demos]**
 - Review of parameter list
 - Operation of programming unit
 - Typical programming errors
 - Trouble-shooting programming faults
 10. **Questions & Review**

Schedule of Classes:

- Program will be taught in one 8-hour session from 8:00 am to 4:30 pm at local hotels, universities, and other meeting areas. All participant course materials will be provided. PDH/CEU certificates will be provided to those who complete the final test and requested paperwork.
- Our current plans are to host courses in each of the following cities: Salt Lake City, Ogden, Boise, Idaho Falls, Rock Springs, Elko, St. George, and Vernal. This may be modified to suit customer demand.

Program Costs:

Energy Management Corporation plans to provide this course as a free service to the public. Costs associated with the course will be borne by EMC and other sponsoring partners such as Rocky Mountain Power, Idaho Power, and Mitsubishi Electric.

Instructors:

Craig N Hartman

BSEE, University of Utah, 1980

Professional Engineer License #E11313, State of California

Professional Engineer License #24114, State of Colorado

Professional Engineer License #189022-2202, State of Utah

25+ years experience in Power generation & distribution, Power Quality, Industrial Control,
Engineering Management including:

Westinghouse Electric: Project & Application Engineer

Mitsubishi Electric: Drives & PLC Specialist

Geneva Steel Corporation: Director of Engineering

EMC: VP of Operations & Engineering

Wayne Turnbow

30+ years of experience in variable frequency drive service, repair and fabrication

Variable Frequency Drive specialist experienced with most drive manufacturers

17 years of experience in engineering and design

Cutler Hammer SV9000 & CP9000 VFD certified

EMC: VP of Sales

Barry N. Christiansen

BASEET, ITT Technical Institute

10 Years of experience with variable frequency drives and motor control systems

EMC: Service Manager

1 Year of panel production

9 Years of field engineering

Other guest instructors, specializing in the areas noted above and under the direction of Mr. Hartman, may be utilized during the presentations.

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Practical Examination
Ogden-Weber ATC

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	0 (0%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 2

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES

Test Dates:06/19/14 - 08/14/14

UT Journeyman Electrician Practical Examination
Ogden-Weber ATC

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	1 (100%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Written Examinations
Ogden-Weber ATC

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/03/2014	UT Journeyman Electrician Theory Examination	36 (72%)
[REDACTED]	02/22/2014	UT Journeyman Electrician Theory Examination	34 (68%)
[REDACTED]	06/28/2014	UT Journeyman Electrician Code Examination	55 (68%)
[REDACTED]	07/24/2014	UT Journeyman Electrician Code Examination	49 (61%)
[REDACTED]	08/02/2014	UT Journeyman Electrician Theory Examination	31 (62%)
[REDACTED]	07/03/2014	UT Journeyman Electrician Theory Examination	37 (74%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 5

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Master Electrician Written Examinations
Ogden-Weber ATC

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/22/2014	UT Master Electrician Code Examination	49 (61%)
[REDACTED]	07/24/2014	UT Master Electrician Code Examination	54 (67%)
[REDACTED]		UT Master Electrician Theory Examination	23 (46%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 6

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Written Examinations
Bridgerland ATC

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	08/05/2014	UT Journeyman Electrician Theory Examination	33 (66%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 7

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Written Examinations
Davis ATC

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/11/2014	UT Journeyman Electrician Code Examination	49 (61%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 9

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Residential Journeyman Electrician Written Examinations

Davis ATC

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/31/2014	UT Residential Journeyman Electrician Code Examination	57 (71%)
[REDACTED]		UT Residential Journeyman Electrician Theory Examination	41 (82%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 11

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Practical Examination
Mountainland ATC

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	1 (100%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Written Examinations
Southwest ATC

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	07/29/2014	UT Journeyman Electrician Code Examination	54	(67%)
[REDACTED]	07/29/2014	UT Journeyman Electrician Theory Examination	37	(74%)
[REDACTED]	07/12/2014	UT Journeyman Electrician Theory Examination	27	(54%)
[REDACTED]	07/12/2014	UT Journeyman Electrician Code Examination	51	(63%)
[REDACTED]	08/08/2014	UT Journeyman Electrician Code Examination	52	(65%)
[REDACTED]	08/08/2014	UT Journeyman Electrician Theory Examination	40	(80%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 16

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Written Examinations
Southwest ATC

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/05/2014	UT Journeyman Electrician Theory Examination	38 (76%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Written Examinations
Dixie ATC

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/16/2014	UT Journeyman Electrician Theory Examination	26 (52%)
[REDACTED]	06/19/2014	UT Journeyman Electrician Theory Examination	31 (62%)
[REDACTED]		UT Journeyman Electrician Code Examination	61 (76%)

PSI EXAMINATION SERVICES
UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS

FILING CANDIDATES
UT Journeyman Electrician Practical Examination
IEC EDUCATION OF UTAH

Test Dates: 06/19/14 - 08/14/14

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	0 (0%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Residential Journeyman Electrician Written Examinations

IEC EDUCATION OF UTAH

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	10/29/2013	UT Residential Journeyman Electrician Code Examination(PRE 11/14/2013)	49 (61%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 22

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Residential Journeyman Electrician Written Examinations

IEC EDUCATION OF UTAH

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
	07/08/2014	UT Residential Journeyman Electrician Theory Examination	42 (84%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Written Examinations
College of Eastern Utah

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/15/2014	UT Journeyman Electrician Code Examination	57 (71%)
[REDACTED]		UT Journeyman Electrician Theory Examination	41 (82%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Master Electrician Practical Examination
College of Eastern Utah

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/26/2014	UT Master Electrician Practical Examination	0 (0%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Practical Examination
UTAH VALLEY UNIVERSITY

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	0 (0%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 27

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES
UT Master Electrician Written Examinations
UTAH VALLEY UNIVERSITY

Test Dates:06/19/14 - 08/14/14

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	06/19/2014	UT Master Electrician Theory Examination	32 (64%)
		UT Master Electrician Code Examination	62 (77%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 28

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES
UT Master Electrician Written Examinations
UTAH VALLEY UNIVERSITY

Test Dates: 06/19/14 - 08/14/14

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	07/01/2014	UT Master Electrician Theory Examination	42	(84%)
[REDACTED]	08/02/2014	UT Master Electrician Code Examination	74	(92%)
		UT Master Electrician Theory Examination	40	(80%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Residential Journeyman Electrician Written Examinations

UTAH VALLEY UNIVERSITY

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	06/21/2014	UT Residential Journeyman Electrician Theory Examination	33 (66%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Residential Journeyman Electrician Written Examinations

UTAH VALLEY UNIVERSITY

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	07/17/2014	UT Residential Journeyman Electrician Theory Examination	38	(76%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 31

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Practical Examination
Salt Lake Community College

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	0 (0%)
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	0 (0%)
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	0 (0%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES Test Dates:06/19/14 - 08/14/14
UT Journeyman Electrician Written Examinations
Salt Lake Community College

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	06/28/2014	UT Journeyman Electrician Code Examination	57	(71%)
[REDACTED]	07/24/2014	UT Journeyman Electrician Code Examination	54	(67%)
[REDACTED]	07/01/2014	UT Journeyman Electrician Theory Examination	36	(72%)
[REDACTED]	07/01/2014	UT Journeyman Electrician Theory Examination	17	(34%)
[REDACTED]	07/01/2014	UT Journeyman Electrician Code Examination	29	(36%)
[REDACTED]	07/17/2014	UT Journeyman Electrician Code Examination	60	(75%)
[REDACTED]	07/17/2014	UT Journeyman Electrician Theory Examination	35	(70%)
[REDACTED]	06/26/2014	UT Journeyman Electrician Theory Examination	34	(68%)
[REDACTED]	07/12/2014	UT Journeyman Electrician Theory Examination	30	(60%)
[REDACTED]	07/12/2014	UT Journeyman Electrician Code Examination	49	(61%)
[REDACTED]	07/05/2014	UT Journeyman Electrician Theory Examination	36	(72%)
[REDACTED]	07/12/2014	UT Journeyman Electrician Code Examination	51	(63%)
[REDACTED]	07/31/2014	UT Journeyman Electrician Theory Examination	36	(72%)
[REDACTED]	08/09/2014	UT Journeyman Electrician Code Examination	59	(73%)
[REDACTED]	07/31/2014	UT Journeyman Electrician Code Examination	44	(55%)
[REDACTED]	07/31/2014	UT Journeyman Electrician Theory Examination	25	(50%)

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	08/12/2014	UT Journeyman Electrician Code Examination	41	(51%)
[REDACTED]	07/18/2014	UT Journeyman Electrician Theory Examination	36	(72%)
[REDACTED]	07/26/2014	UT Journeyman Electrician Code Examination	58	(72%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Written Examinations

Salt Lake Community College

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	06/23/2014	UT Journeyman Electrician Theory Examination	44	(88%)
[REDACTED]	07/29/2014	UT Journeyman Electrician Theory Examination	40	(80%)
[REDACTED]	07/31/2014	UT Journeyman Electrician Code Examination	69	(86%)
[REDACTED]	07/31/2014	UT Journeyman Electrician Code Examination	64	(80%)
[REDACTED]	07/31/2014	UT Journeyman Electrician Theory Examination	44	(88%)
[REDACTED]	08/12/2014	UT Journeyman Electrician Theory Examination	42	(84%)
[REDACTED]	07/12/2014	UT Journeyman Electrician Theory Examination	38	(76%)
[REDACTED]	08/07/2014	UT Journeyman Electrician Theory Examination	42	(84%)
[REDACTED]	07/12/2014	UT Journeyman Electrician Code Examination	64	(80%)
[REDACTED]	07/08/2014	UT Journeyman Electrician Theory Examination	42	(84%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES
UT Master Electrician Practical Examination
Salt Lake Community College

Test Dates: 06/19/14 - 08/14/14

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/26/2014	UT Master Electrician Practical Examination	0 (0%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 37

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates:06/19/14 - 08/14/14

UT Master Electrician Written Examinations
Salt Lake Community College

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	08/05/2014	UT Master Electrician Theory Examination	27	(54%)
[REDACTED]		UT Master Electrician Code Examination	48	(60%)
[REDACTED]	07/10/2014	UT Master Electrician Code Examination	43	(53%)
[REDACTED]	08/12/2014	UT Master Electrician Code Examination	56	(70%)
[REDACTED]	07/26/2014	UT Master Electrician Code Examination	58	(72%)
[REDACTED]		UT Master Electrician Theory Examination	23	(46%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Residential Journeyman Electrician Practical Examination
Salt Lake Community College

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	06/28/2014	UT Residential Journeyman Electrician Practical Examination	0 (0%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 40

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates:06/19/14 - 08/14/14

UT Residential Journeyman Electrician Written Examinations
Salt Lake Community College

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	08/09/2014	UT Residential Journeyman Electrician Theory Examination	33 (66%)
[REDACTED]		UT Residential Journeyman Electrician Code Examination	68 (85%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 41

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES

Test Dates:06/19/14 - 08/14/14

UT Residential Journeyman Electrician Written Examinations
Salt Lake Community College

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/22/2014	UT Residential Journeyman Electrician Theory Examination	38 (76%)
[REDACTED]	07/24/2014	UT Residential Journeyman Electrician Code Examination	69 (86%)
[REDACTED]	07/31/2014	UT Residential Journeyman Electrician Theory Examination	39 (78%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 42

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Residential Master Electrician Practical Examination
Salt Lake Community College

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	07/26/2014	UT Residential Master Electrician Practical Examination	0	(0%)
[REDACTED]	07/26/2014	UT Residential Master Electrician Practical Examination	0	(0%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 43

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Practical Examination
IBEW - UTAH

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	0	(0%)
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	0	(0%)
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	0	(0%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 44

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Practical Examination
IBEW - UTAH

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	1 (100%)
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	1 (100%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 45

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates:06/19/14 - 08/14/14

UT Journeyman Electrician Written Examinations
IBEW - UTAH

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	07/19/2014	UT Journeyman Electrician Theory Examination	36	(72%)
[REDACTED]	07/12/2014	UT Journeyman Electrician Code Examination	57	(71%)
[REDACTED]	08/12/2014	UT Journeyman Electrician Code Examination	57	(71%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Written Examinations
IBEW - UTAH

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	04/26/2014	UT Journeyman Electrician Theory Examination	39 (78%)
[REDACTED]	04/26/2014	UT Journeyman Electrician Theory Examination	40 (80%)
[REDACTED]	07/12/2014	UT Journeyman Electrician Code Examination	70 (87%)
[REDACTED]	07/05/2014	UT Journeyman Electrician Code Examination	67 (83%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 47

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES
UT Master Electrician Written Examinations
IBEW - UTAH

Test Dates: 06/19/14 - 08/14/14

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	08/01/2014	UT Master Electrician Code Examination	56 (70%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 48

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Practical Examination

OUT-OF-STATE

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	0 (0%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 49

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Journeyman Electrician Written Examinations

OUT-OF-STATE

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	08/02/2014	UT Journeyman Electrician Theory Examination	29	(58%)
[REDACTED]	07/24/2014	UT Journeyman Electrician Theory Examination	32	(64%)
[REDACTED]		UT Journeyman Electrician Code Examination	63	(78%)
[REDACTED]	08/07/2014	UT Journeyman Electrician Code Examination	56	(70%)
[REDACTED]		UT Journeyman Electrician Theory Examination	30	(60%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES Test Dates: 06/19/14 - 08/14/14
UT Journeyman Electrician Practical Examination

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	0	(0%)
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	0	(0%)
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	0	(0%)
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	0	(0%)
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	0	(0%)
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	0	(0%)
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	0	(0%)
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	0	(0%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 52

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES

Test Dates:06/19/14 - 08/14/14

UT Journeyman Electrician Practical Examination

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	1 (100%)
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	1 (100%)
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	1 (100%)
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	1 (100%)
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	1 (100%)
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	1 (100%)
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	1 (100%)
[REDACTED]	06/28/2014	UT Journeyman Electrician Practical Examination	1 (100%)
[REDACTED]	07/26/2014	UT Journeyman Electrician Practical Examination	1 (100%)

PSI EXAMINATION SERVICES

UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS

FAILING CANDIDATES Test Dates:06/19/14 - 08/14/14

UT Journeyman Electrician Written Examinations

Other

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	07/16/2014	UT Journeyman Electrician Code Examination	59	(73%)
[REDACTED]		UT Journeyman Electrician Theory Examination	32	(64%)
[REDACTED]	06/20/2014	UT Journeyman Electrician Code Examination	52	(65%)
[REDACTED]		UT Journeyman Electrician Theory Examination	25	(50%)
[REDACTED]	06/24/2014	UT Journeyman Electrician Theory Examination	32	(64%)
[REDACTED]	07/22/2014	UT Journeyman Electrician Theory Examination	31	(62%)
[REDACTED]	07/03/2014	UT Journeyman Electrician Theory Examination	34	(68%)
[REDACTED]		UT Journeyman Electrician Code Examination	59	(73%)
[REDACTED]	06/27/2014	UT Journeyman Electrician Code Examination	66	(82%)
[REDACTED]		UT Journeyman Electrician Theory Examination	28	(56%)
[REDACTED]	07/12/2014	UT Journeyman Electrician Theory Examination	26	(52%)
[REDACTED]	06/21/2014	UT Journeyman Electrician Theory Examination	33	(66%)
[REDACTED]	07/11/2014	UT Journeyman Electrician Theory Examination	28	(56%)
[REDACTED]		UT Journeyman Electrician Code Examination	47	(58%)
[REDACTED]	06/27/2014	UT Journeyman Electrician Code Examination	45	(56%)
[REDACTED]		UT Journeyman Electrician Theory Examination	39	(78%)

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/12/2014	UT Journeyman Electrician Theory Examination	23 (46%)
[REDACTED]		UT Journeyman Electrician Code Examination	55 (68%)
[REDACTED]	07/26/2014	UT Journeyman Electrician Code Examination	53 (66%)
[REDACTED]		UT Journeyman Electrician Theory Examination	11 (22%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 56

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Master Electrician Practical Examination
Other

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/26/2014	UT Master Electrician Practical Examination	0 (0%)
[REDACTED]	07/26/2014	UT Master Electrician Practical Examination	0 (0%)
[REDACTED]	07/26/2014	UT Master Electrician Practical Examination	0 (0%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 57

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES
UT Master Electrician Practical Examination
Other

Test Dates: 06/19/14 - 08/14/14

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	06/28/2014	UT Master Electrician Practical Examination	1	(100%)
[REDACTED]	06/28/2014	UT Master Electrician Practical Examination	1	(100%)
[REDACTED]	06/28/2014	UT Master Electrician Practical Examination	1	(100%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Master Electrician Written Examinations

Other

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	08/05/2014	UT Master Electrician Theory Examination	23	(46%)
[REDACTED]		UT Master Electrician Code Examination	62	(77%)
[REDACTED]	07/21/2014	UT Master Electrician Code Examination	55	(68%)
[REDACTED]		UT Master Electrician Theory Examination	26	(52%)
[REDACTED]	07/19/2014	UT Master Electrician Code Examination	46	(57%)
[REDACTED]		UT Master Electrician Theory Examination	35	(70%)
[REDACTED]	07/26/2014	UT Master Electrician Theory Examination	33	(66%)
[REDACTED]	07/30/2014	UT Master Electrician Theory Examination	33	(66%)
[REDACTED]		UT Master Electrician Code Examination	54	(67%)
[REDACTED]	06/28/2014	UT Master Electrician Theory Examination	37	(74%)
[REDACTED]	07/24/2014	UT Master Electrician Code Examination	59	(73%)
[REDACTED]	07/26/2014	UT Master Electrician Theory Examination	32	(64%)
[REDACTED]	07/25/2014	UT Master Electrician Theory Examination	34	(68%)
[REDACTED]	06/30/2014	UT Master Electrician Theory Examination	30	(60%)
[REDACTED]	07/24/2014	UT Master Electrician Theory Examination	21	(42%)
[REDACTED]		UT Master Electrician Code Examination	47	(58%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 59

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES
UT Master Electrician Written Examinations
Other

Test Dates:06/19/14 - 08/14/14

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	08/02/2014	UT Master Electrician Code Examination	60 (75%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 60

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Residential Journeyman Electrician Practical Examination

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/26/2014	UT Residential Journeyman Electrician Practical Examination	0 (0%)

PSI EXAMINATION SERVICES

Report Date: 08/14/14
Page #: 61

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES Test Dates: 06/19/14 - 08/14/14
UT Residential Journeyman Electrician Practical Examination

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
	07/26/2014	UT Residential Journeyman Electrician Practical Examination	1 (100%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

FAILING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Residential Journeyman Electrician Written Examinations

Other

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE / %
[REDACTED]	07/12/2014	UT Residential Journeyman Electrician Theory Examination	34 (68%)
[REDACTED]	07/08/2014	UT Residential Journeyman Electrician Theory Examination	37 (74%)

PSI EXAMINATION SERVICES

**UTAH DOPL - ELECTRICAL
EXAMINATION RESULTS**

PASSING CANDIDATES

Test Dates: 06/19/14 - 08/14/14

UT Residential Journeyman Electrician Written Examinations

Other

CANDIDATE NAME	TEST DATE	PORTION(S)	SCORE	%
[REDACTED]	04/10/2014	UT Residential Journeyman Electrician Code Examination	66	(82%)
[REDACTED]	07/22/2014	UT Residential Journeyman Electrician Theory Examination	40	(80%)
[REDACTED]	08/05/2014	UT Residential Journeyman Electrician Theory Examination	40	(80%)