



**GREEN CAREERS FOR COLORADANS
LABOR'S COMMUNITY AGENCY, INC.
An Energy Training Partnership Grant
Course Descriptions and Pre-Requisites**



The following are basic requirements that must be met to participate in this grant program, the participant must:

1. *Must have a valid Colorado/Wyoming driver's license or State ID*
 2. *Must be a U.S. Citizen or a Permanent Resident*
 3. *Must be enrolled at a Workforce Center or be a Union Member*
-

Please refer all parties interested in enrolling in a *GREEN CAREERS FOR COLORADANS* grant course to:

Mary Broderick, GCC Recruitment Outreach Coordinator
Email <mbroderick@fresc.org>
Phone: 303-477-6111x23

Course Name: Fundamentals of Energy Efficiency: Type 1 Training
Course ID: FOE
Training Provider: iCAST

Fundamentals of Energy Efficiency Course Description: This course was designed to introduce trainees to the technology and processes associated with residential energy efficiency auditing & installation. The trainees will receive foundational knowledge and hands-on training from industry experts that prepares them for entry-level efficiency work. The course curriculum will cover 'best practices' in auditing and reporting procedures for recommend improvements to residential energy usage. Furthermore, the course will provide trainees with first-hand experience of the most common efficiency installation techniques, such as insulating, air sealing, weather-stripping, and identification of electrical wasters. Graduates will receive a certificate of completion from iCAST. (*Prerequisite to BPI Certification Course*)

Prerequisites:

- 2-3 years construction experience preferred
- Interest in the Energy Efficiency Field, e.g., auditing/installations
- 8th grade math skills (Algebra)
- Able to lift up to 50 pounds
- Comfortable with crawling around in crawl spaces, attics and other confined spaces
- Driver's License & Transportation
- Felony convictions may preclude you from some employment opportunities in this industry.

Scheduled Course Date(s) – Subject to Change

➤ **Courses will resume in 2011**

This is a 40-hour course

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Course Name: BPI - Building Performance Institute – Entry Level - Type 1 Training
Course ID: BPIA
Training Provider: iCAST

BPI Certification Course Description: This is a nationally recognized certification that is becoming mandatory for energy efficiency workers. This training is to help you secure employment or to increase your employment value in the expanding home performance market. Experts will guide you through the classroom and field training processes, while you perform the following in each home: Building Science, Building Shell - Parts of a Home, Insulation, Doors & Windows, Moisture, Review for Shell and Moisture, Building Air Flow, Basic Blower Door Operation & Air Leakage, Duct Leakage & Duct Blaster, Review for Air Leakage & Flow, Mechanical Systems, Appliances/Lighting, Indoor Air Quality, Data Collection, Combustion Appliance Zone Theory and Testing.

Certification: BPI Certification

Prerequisites:

- Must pass the pretest for BPI administered by iCAST
- 2-3 years construction experience preferred
- Interest in the Energy Efficiency Field, e.g., auditing/installations
- 8th grade math skills (Algebra)
- Able to lift up to 50 pounds
- Comfortable with crawling around in crawl spaces, attics and other confined spaces
- Drivers License & Transportation
- Felony convictions may preclude you from some employment opportunities in this industry

Scheduled Course Date(s) – Subject to Change

- **Courses will resume in 2011**

This is a two (2)-week course



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Phone: 303-477-6111x23

Course Name: BPI – Building Performance Institute – Experienced Construction Worker - Type 1 Training

Course ID: BPIB

Training Provider: CCD (Community College of Denver, Performance Solutions)

BPI Certification Course Description: This training program will help students prepare for the Building Performance Institute's Building Analyst written & field tests. You'll learn how a house works as a system, why some homes fail, and how to use the latest science technology to help resolve residential problems like heating/ cooling/ base load and leakage. By using a "whole house" performance-based approach, you'll address a comprehensive range of interrelated building issues and be able to provide your clients with a more comfortable, safe, durable and energy-efficient home. This course is fast paced and requires advanced reading of the textbook "Residential Energy".

Pre-requisites

- Must understand basic Building Science (through experience and/ or education); may substitute college certificate in "Residential Analyst".
- 2+ years previous experience in construction required or successful completion of the Fundamentals of Energy Efficiency course
- Strong basic Algebra/ math skills
- Literacy: must be able to read at High School + level
- Able and willing to climb ladders, crawl into confined spaces
- Criminal background: violent & sexual offense/ theft felons may have problems obtaining employment but are not prohibited from taking this course
- Able to lift up to 50 pounds
- Strong communication and customer service skills
- Basic computer keyboard navigation skills
- Basic calculator skills
- Reading must be done in advance of the course

Scheduled Course Date(s) – Subject to Change

This is a four-day course, with the successful completion of the written test, participants will continue to the four (4) day field exam.



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Phone: 303-477-6111x23

Course Name: Trades Math (Algebra Refresher)

Course ID: TM

Training Provider: CCD (Community College of Denver, Performance Solutions)

Trades Math Course Description: This training program is designed for those who have had algebra previously, but need a refresher. Assessment testing will determine math level, and each participant is evaluated individually.

Pre-requisites

- Basic high school algebra must have been previously taken.
- Construction experience in any trade is helpful due to the contextual curriculum.

Session Topics – (Subject to Change)

- Basic Mathematics Review – One (1) session, Multiplication, division, addition, subtraction and fractions.
- Algebra - Three (3) sessions, refresher of basic algebraic concepts, formulas, etc.
- Geometry – Three (3) sessions, Pythagorean theorem; sine/cosine/tangent; intro to Cartesian coordinates including how to graph data sets. Participants will need this knowledge for the LCR (Inductor, Capacitor, Resistor) circuits' section of this course.
- Applied Formulas – One (1) session, contextualized formulas using electrical equations, primarily algebra and geometry. If needed, electrical equations not covered previously.

Scheduled Course Date(s) – Subject to Change

Referrals

- A GCC referral must be received from Mary Broderick, 303-477-6111 x23
- Weekly Orientations will be held on Wednesday's 9 – 10 a.m.
- Personal orientation appointments available, if needed
- Class size limit: 9 – 12

This course is 24 classroom hours, 3 hours per class and 8 total classes.



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Course Name: NABCEP (North American Board of Certified Energy Practitioners) - Letter of Completion - Type 1 Training

Course ID: LOC

Training Provider: Quintas Renewable Energy

NABCEP- Letter of Completion Course Description: This course is designed for the entry level person who will be trained as a solar panel installer, with the abilities to design a system, use a solar pathfinder, voltmeter and wiring systems. Training will include how to design a PV system based on current electrical consumption, using the National Electrical Code 690 (related to PV only), math and calculations, stand alone systems and batteries and grid tied systems. Upon successful completion, graduates are enrolled into the NABCEP Entry Level test. There is a \$25 registration fee

Pre-requisites for Basic NABCEP Entry Level:

- Algebra
- Basic Trigonometry
- Basic Geometry
- Graphing (coordinates)
- TABES 9th grade level, reading and language
- Drug test is required
- If felony convictions: no theft, arson, sex offenders or violent crimes
- Ability to travel within Denver Metro or further to work
- Ability to lift 55 pounds or more.
- No previous or past back, knee or joint injuries
- Ability to climb ladders and heights
- Ability to work in confined spaces

****This is an outdoor job, mostly on roofs****

Must have the ability to keep up with physical fitness program during both weeks of training.

Scheduled Course Date(s) – Subject to Change

This is a 40-hour course



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Course Name: LEED (Leadership in Energy and Environment Design) - Green Associate Exam Prep Class - Type 1 Training
Course ID: LGEP

Training Provider: AGC – Associated General Contractors

Green Associate Exam Prep Class Description: The LEED v3 Green Associate Training credential requires anyone planning to obtain their LEED AP+ credential to first obtain their Green Associate credential. To receive the GA professional credential, an individual must register for and pass the LEED v3 Green Associate Exam.

This one-day, eight (8)-hour course reviews the information needed to know to support passing the exam. Anyone completing the eight (8)-hour course also will receive a Certificate needed to meet the qualification to schedule the exam at an independent testing center. The information taught in the course includes the various areas covered in the exam and the information and resources needed for those areas through the use of handouts and notes from the course, the exam simulators that are provided and studying on-line at times convenient for the participant. Plus information as to the process to access the on-line support and how to schedule the exam is included. It is a combination of one day classroom training, plus six (6) weeks of on-line study, which the participant can access at their convenience and includes practice exams and help with questions as they study for the exam. There is a \$25 registration fee for this course. All study materials are provided for the course. (USGBC -United States Green Building Council- LEED Version 3 Reference Guide is not included in course material.) The course overview, as it pertains to the test includes:

- Review of LEED Rating system
- Green Building concepts
- Review of core curriculum
- Sustainable sites and water efficiency
- Energy and Atmosphere
- Materials and Resources

The course includes:

- LEED Candidate Handbook
- Access to on-line Study Toolkit
- Access to on-line Practice Exams
- Access to our experts for follow-up questions
- Live proctoring of sample Exam Questions and Scenarios

Pre-requisites: No prerequisite is required to participate in the course. However, to obtain the Certificate upon completion for the course, the participant must be present for the full 1-day training. The availability of on-line training is an additional service but not a requirement to receive the certificate.



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LEED - Green Associate Exam Prep Class
Scheduled Course Date(s) – *Subject to Change*

- Aug 26, 2010
- Sept 30, 2010
- Nov 2010
- Nov 2010
- Feb 3, 2011
- May 5, 2011
- June 2, 2011
- Nov 2011
- Nov 2011

This is an eight (8)-hour course.



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Phone: 303-477-6111x23

Course Name: LEED (Leadership in Energy and Environment Design) – AP+ Specialty Building Design & Construction Exam Training - Type 1 Training

Course ID: LDBDC

Training Provider: AGC – Associated General Contractors

Specialty Building Design & Construction Exam Training Course Description: The BD&C Exam Training Course is a resource to help pass the BD&C exam that provides these three certifications:

- LEED for New Construction
- LEED for Core and Shell
- LEED for Schools

Anyone completing this one (1)-day, eight (8)-hour, course will receive a Certificate.

This one (1)-day, eight (8)-hour course, reviews the information needed to know to support passing the exam. The information taught in the course includes the various areas covered in the exam and the information and resources needed for those areas through the use of handouts and notes from the course, the exam on-line simulators that are provided and studying on-line at times convenient for the participant. It is a combination of one (1)-day classroom training plus six (6) weeks of on-line study, which the participant can access, at their convenience, and includes practice exams and help with questions as they study for the exam. There is a \$25 registration fee for this course. All study materials are provided for the course. (USGBC - United States Green Building Council - LEED Version 3 Reference Guide is not included in course material.) The course overview includes:

- Review of the LEED BD&C Rating System
- Sustainable Sites
- Water Efficiency
- Energy & Atmosphere
- Materials & resources
- Indoor Quality Environmental Quality
- Innovation in Design
- Regional Priority

Course Includes

- LEED Candidate Handbook
- LEED Standards memorization Table
- Credit Summary Worksheets
- Access to on-line Practice Exams
- Access to on-line Study Toolkit
- Access to our experts for follow-up questions
- Live proctoring of sample Exam Questions and Scenarios



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Pre-requisites:

Must have passed the LEED AP exam or LEED GA exam and have one of the following credentials:

- USGBC LEED AP accredited professional
- USGBC LEED Green Associate

Participants are expected individually to also meet any additional GBCI (Green Building Certification Institute) requirements needed to schedule the exam separate from the exam preparation course.

LEED AP+ - Specialty Building Design & Construction Exam Training

Scheduled Course Date(s) – *Subject to Change*

➤ **Aug 27, 2010**

➤ **Feb 11, 2011**

This is an 8-hour course.



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Course Name: LEED (Leadership in Energy and Environment Design) – AP+ Specialty Building Operations & Maintenance Exam Training - Type 1 Training

Course ID: LDOM

Training Provider: AGC – Associated General Contractors

Specialty Building Operations & Maintenance Exam Training Course Description: The O&M Exam Training Course is a resource to help pass the O&M exam that provides these three certifications:

- LEED for New Construction
- LEED for Core and Shell
- LEED for Schools

Anyone completing this one (1)-day, eight (8)-hour, course will receive a Certificate.

This one (1)-day, eight (8)-hour course, reviews the information needed to know to support passing the exam. The information taught in the course includes the various areas covered in the exam and the information and resources needed for those areas through the use of handouts and notes from the course, the exam on-line simulators that are provided and studying on-line at times convenient for the participant. It is a combination of one (1)-day classroom training plus six (6) weeks of on-line study, which the participant can access, at their convenience, and includes practice exams and help with questions as they study for the exam. There is a \$25 registration fee for this course. All study materials are provided for the course. The USGBC LEED O&M Reference Guide is not included as part of the course. (USGBC -United States Green Building Council - LEED Version 3 Reference Guide is not included in course material.) The course overview includes:

- Review of the LEED GBO&M Rating System and Certification process
- Sustainable Sites
- Water Efficiency
- Energy and Atmosphere
- Materials and Resources
- Indoor Environmental Quality
- Innovation in Operations
- Regional Priority
- LEED AP+ O&M Exam Overview & Study Strategies

Course Includes

- LEED Candidate Handbook
- LEED Standards memorization Table
- Credit Summary Worksheets
- Access to on-line Practice Exams



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- Access to on-line Study Toolkit
- Access to our experts for follow-up questions
- Live proctoring of sample Exam Questions and Scenarios

Pre-requisites:

Must have passed the LEED AP exam or LEED GA exam and have one of the following credentials:

- USGBC LEED AP accredited professional
- USGBC LEED Green Associate

Participants are expected individually to also meet any additional GBCI (Green Building Certification Institute) requirements needed to schedule the exam separate from the exam preparation course. One such requirement is related project experience.

LEED AP+ - Specialty Building Operations & Maintenance Exam Training
Scheduled Course Date(s) – Subject to Change

➤ Dec 3, 2010 ➤ Feb 11, 2011 ➤ Dec 8, 2011

This is an 8-hour course.



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Residential Wind Turbine: (Small Wind Energy Systems) - Type 1 Training

Course ID: RWT

Training Provider: Advanced Energy Systems, LLC/BHO Productions

Residential Wind Turbine Course Description: This course covers all elements of planning, siting, designing and installing small wind energy systems. The Course will make sure to address each element of the current NABCEP task analysis in anticipation of potential certifications in the future. A special section on large wind energy systems will be included, and hands-on segments will be incorporated throughout as practicable.

Pre-requisites include:

- High school education or GED
- English language proficiency (reading, writing and speaking)
- Mathematics basic proficiency
- Preferred capability in basic algebra, trigonometry and geometry
- Preferred capability in electricity and circuits
- Preferred capability in basic construction and tool usage

Course Outline

1. Site Assessment
2. Safety for Small Wind Energy Systems
3. System Design and Project Plan
4. Mechanical and Structural Design
5. Electrical Design
6. Installation
7. System Checkout and Inspection
8. Maintenance and Troubleshooting
9. Large Wind Energy Systems – Intro

Hands-On Component

- DJEATC Site Review
- DJEATC Safety Station
- Docs: Site Plan, Equipment List, and Install Manual
- Docs: Permit Rules, Soils Report, Fdn Design
- Docs: Xcel IA, NEC, Wiring; Component Layout
- Transit, Tapes, SMarT Kit, Turbine Assy, Winch
- Energize Skystream, watch on PC with Skyview
- Oral Quiz

Scheduled Course Date(s) – Subject to Change

- Dates will become available upon completion of the Residential Wind Turbine Installation: Estimated for the Fall of 2010

This is a 40-hour course.



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NABCEP (North American Board of Certified Energy Practitioners) – Certified Energy Practitioner - Type 2 Training

Course ID: PVA

Training Provider: DJEATC and Partner JATCs

One of the following three prerequisites must be met:

- Must have received a qualifying score for NJATC Electrical Aptitude test.
- Must have been employed by a NECA Contractor within the last two (2) years.
- Must have been employed by an IBEW Contractor within the last two (2) years.

NABCEP-Certified Energy Practitioner Course Description: As the world's demand for electricity increases, more and different ways to generate electricity are needed. On of these ways is photovoltaic (PV) or solar cells. This course covers how to layout and install a PV system to meet the needs of the customer as well as how to maintain and service a system. All the work will be done on the DJEATC's own PV system. There is an \$85 refundable fee for this course.

Scheduled Course Date(s) – Subject to Change

Denver

- August 16, 2010 thru September 29, 2010– 3 hours – Each Tuesday and Thursday evening
- November 1, 2010 thru November 17, 2010 – 6 hours – Each Monday, Wednesday and Friday – Day Classes

Colorado Springs/Pueblo

- August 9 thru August 30, 2010 – 4 hours – Each Monday, Wednesday and Friday evening

Grand Junction

- September 13 thru October 11, 2010 – 3 hours – Each Monday, Wednesday and Friday evening.

This is a 40-hour course - Each class will be scheduled for 20 participants



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EPRI (Electric Power Research Institute) – 1: Instrumentation Part A - Type 2 Training

Course ID: EPA

Training Provider: DJEATC and Partner JATCs

One of the following three prerequisites must be met:

- Must have received a qualifying score for NJATC Electrical Aptitude test.
- Must have been employed by a NECA Contractor within the last two (2) years.
- Must have been employed by an IBEW Contractor within the last two (2) years.

EPRI-1 Course Description: This course begins with an introduction into the basics of instrumentation, including definitions of commonly used instrumentation terms and symbols and an overview of the physical parameters of industrial measurement and control, pressure, flow, level and temperature. Both bench calibration of analog instruments and communicating with and configuring digital (SMART) instruments are covered in great detail. There is a \$75 refundable fee for this course.

Scheduled Course Date(s) – Subject to Change

All classes are schedule for Denver

- **August 11 thru August 27, 2010 – Each Monday, Wednesday & Friday during the day**
- **September 11 thru October 30, 2010 – Every Saturday for 6 (six) hours**
- **August 10 thru September 30, 2010 – Every Tuesday and Thursday evening 3 (three) hours**

This course is 48 hours – Each class is schedule for 15 participants



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EPRI – 2: Instrumentation Part B - Type 2 Training

Course ID: EPB

Training Provider: DJEATC and Partner JATCs

One of the following three prerequisites must be met:

- Must have received a qualifying score for NJATC Electrical Aptitude test.
- Must have been employed by a NECA Contractor within the last two (2) years.
- Must have been employed by an IBEW Contractor within the last two (2) years.

EPRI – 2 Course Description: This course is a more in-depth study of calibration techniques for process control instruments. It will be a continuation of the instrumentation course to prepare students for the EPRI part B exam. There is a \$75 refundable fee for this course.

Scheduled Course Date(s) – Subject to Change

- To Be Determined

This course is 36 hours



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BICSI: Building Industry Consulting Service International - Type 2 Training

Course ID: BIC

Training Provider: DJEATC and Partner JATCs

One of the following three prerequisites must be met:

- Must have received a qualifying score for NJATC Electrical Aptitude test.
- Must have been employed by a NECA Contractor within the last two (2) years.
- Must have been employed by an IBEW Contractor within the last two (2) years.

BICSI Course Description: This course offers certified continuing education for installers and designers of telecommunication equipment and wiring. Students will learn to terminate, test and troubleshoot copper and fiber optic cables, become familiar with EIA/TIA standards and learn the chapters of the National Electric Code that pertains to the telecommunications industry. There is a \$135 refundable fee for this course.

Scheduled Course Date(s) – Subject to Change

All classes are schedule for Denver

- **August 10 thru September 23, 2010 – 3 (three) hours - Every Tuesday and Thursday evening**
- **August 14 thru October 2, 2010 – Every Saturday for 6 (six) hours**

**Each level of BICSI is 39 hours: Each class is scheduled for 16 participants
225 Copper, 250 Fiber, 350 Technician**



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Please refer all parties interested in enrolling in a *GREEN CAREERS FOR COLORADANS* grant course to:

Mary Broderick, GCC Recruitment Outreach Coordinator
Email <mbroderick@fresc.org>
Phone: 303-477-6111x23

Building Automation - Type 2 Training

Course ID: BA

Training Provider: DJEATC and Partner JATCs

One of the following three prerequisites must be met:

- Must have received a qualifying score for NJATC Electrical Aptitude test.
- Must have been employed by a NECA Contractor within the last two (2) years.
- Must have been employed by an IBEW Contractor within the last two (2) years.

Building Automation Course Description: This course is designed to familiarize students with design considerations and methods used in the installation of Building Automation Technology. This course prepares students to install the network cabling and low voltage power distribution necessary to implement such systems. The emphasis of the course is on the hardware aspect and does not involve integration issues. There is a \$75 refundable fee for this course.

Scheduled Course Date(s) – Subject to Change

- To be determined

This is a 24-hour course



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LABOR'S COMMUNITY AGENCY, INC.
An Energy Training Partnership Grant
Course Descriptions and Pre-Requisites**



The following are basic requirements that must be met to participate in this grant program, the participant must:

1. *Must have a valid Colorado/Wyoming driver's license or State ID*
 2. *Must be a U.S. Citizen or a Permanent Resident*
 3. *Must be enrolled at a Workforce Center or be a Union Member*
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Wind Turbine Orientation - Type 2 Training

Course ID: WTO

Training Provider: MSLCAT (Mountain States Line Constructors Apprenticeship Training)

One of the following three prerequisites must be met:

- Must have received a qualifying score for NJATC Electrical Aptitude test.
- Must have been employed by a NECA Contractor within the last two (2) years.
- Must have been employed by an IBEW Contractor within the last two (2) years.

Wind Turbine Orientation Course Description: The wind turbine orientation course is for those wishing to enter the field of Wind Turbine construction. Detailed sets of learning objectives are presented to address those areas that have been identified as necessary for anyone working on or in the area of wind farms.

Scheduled Course Date(s) – Subject to Change

- Dates will become available upon completion of the Wind Turbine Simulator: Estimated for the Fall of 2010

This is a 16-hour course



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NFPA 70E: Safety - Type 2 Training
Course ID: 70E
Training Provider: DJEATC

One of the following three prerequisites must be met:

- Must have received a qualifying score for NJATC Electrical Aptitude test.
- Must have been employed by a NECA Contractor within the last two (2) years.
- Must have been employed by an IBEW Contractor within the last two (2) years.

NFPA 70E Course Description: This course focuses on electrical worker safety. All lessons are based on the *NFPA 70E Standards for Electrical Safety in the Workplace* and are designed to raise awareness of the hazards electrical workers face when working on or near energized equipment. Lessons include the manner and conditions under which live electrical work may be performed as well as what personal protective equipment and clothing must be used. There is a \$120 refundable fee for this course.

Scheduled Course Date(s) – Subject to Change

- Sept 13 thru 27, 2010– DJEATC – Three (3) hours, Mon & Wed 6-9pm
 - Nov 4 thru Nov 18, 2010 – DJEATC – Three (3) hours, Tues & Thurs 6-9pm
 - Aug 2 thru Aug 26, 2010 - PEJATC – Four (4) hours, Mon & Thursday
 - Oct 18 thru Nov 11, 2010 – PEJATC - Mon & Thursday
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