



***CANDIDATE INFORMATION
BULLETIN for CERTIFICATION EXAMINATIONS***

- ✓ **UPC Journey Level Plumber, Includes Gas**
- ✓ **UPC Master Level Plumber, Includes Gas**
- ✓ **UMC Journey Level Mechanical**
- ✓ **UMC Master Level Mechanical**



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Important note to examination candidates:
The information contained in this document is important. Please read it carefully.



I. GENERAL INFORMATION

ABOUT NITC CERTIFICATION PROGRAMS

For many years the certification of personnel in the skilled trades was a voluntary effort except where required by an employer or by the local jurisdiction. However, new government and industry requirements continue to emerge asking such personnel to document their qualifications through written examination and/or practical testing. NITC is the clear leader in providing personnel certification which meets this need while holding to the highest standards of modern test practice. NITC's certification programs are nationally recognized, the result of years of effort by industry experts.

ABOUT THE EXAMINATION DEVELOPMENT

The first step in the development of an objective test is to identify the knowledge necessary for the certification holder. This knowledge was identified by a team of industry subject matter experts assembled by NITC. Job and Task analyses were employed to develop the examination blueprint which became the basis for the content of this examination. The passing scores were also determined by these experts using psychometrically accepted standard-setting methodology.

HOW TO OBTAIN THE NITC RULES AND PROCEDURES DOCUMENT

The Medical Gas Installer Certification is governed by the [NITC's Rules and Procedures Manual](#). This document goes into greater detail on a number of the topics covered in this examination information bulletin. Topics covered include:

- Statement of Purpose
- About NITC
- Certifications Administered by NITC
- Scope of Examinations
- Basis of Examination Construction, Validation and Security
- Maintaining and Upgrading Examinations
- Application Procedures
- Examination Fees
- Examination Process
- Examination Scheduling for Groups
- Computer-Based Testing at PSI Centers Information
- Examination Site Information
- Examination Score

- Information Release Policy
- Issuance of Certification Cards and Wall Certificates
- Requirements for Maintaining Certification
- Correction of Material and/or Technical Errors in Examinations
- Notification to Certified Personnel and Stakeholders of Updated Certifications and New Certifications
- Recertification: (Maintenance of Certification)
- Exam Questions Challenges, Appeals Procedure, Complaints
- Guidelines for Use of Certification Mark
- NITC Policy and Guidelines for Testing Persons with Disabilities
- Proctor Responsibilities
- Conflict of Interest and Confidentiality Statements
- Reissuance of Lost Certification Cards
- NITC No-Show, Cancellation, and Refund Policy
- NITC Certification Scheme Committee

Copies of [NITC's Rules and Procedures](#) are available on the NITC website at www.nationalitc.com and also upon request from NITC Headquarters.

II. UPC JOURNEY LEVEL PLUMBER, INCLUDES GAS

SCOPE OF WORK: UPC JOURNEY LEVEL PLUMBER, INCLUDES GAS

A Journey Level Plumber, Includes Gas certification candidate is a qualified individual who can demonstrate journey level competence within their scope and will be proficient in blueprint reading, jobsite safety, and in the practical installation, repair, and service of plumbing systems. A Journey Level Plumber, Includes Gas certification candidate may also be skilled in jobsite supervision.

Installation, repair and service of plumbing systems includes the construction, installation, alteration, repair, service and maintenance of any new or existing system used for potable water, sewage, waste and vent, and/or gas piping in residential, commercial and industrial settings. A Journey Level Plumber, Includes Gas is required to have knowledge of proper plumbing terms and definitions, cross connections, back siphoning, backflow, water heaters, LP gas, storm drainage, plumbing fixtures, indirect waste, firestop protection, trade-related math and simple physics, proper sizing of gas, gas vents for appliances, proper layout, and planning and installation of plumbing systems.

A qualified Journey Level Plumber, Includes Gas may perform these tasks alone, or through the supervision of apprentices or other individuals.

Important additional candidate information: Although UPC Master and Journeyperson Plumber examinations are primarily designed to provide licensing agencies with information regarding qualified contractors and professionals in this trade, some test candidates may use these examinations to serve as an independent appraisal of their competency in the construction field.

A passing grade on one of these certification examinations does not guarantee that a licensing agency will award a license to the certification holder. If your purpose in getting this certification is to secure a license, then start your testing process by determining what your local agency requires of you. Consult with your local or state licensing agency prior to scheduling your test to determine which examination you should take and what, if any, prequalification criteria you must meet prior to testing.

EXAMINATION QUALIFICATION REQUIREMENTS

Candidates must have a minimum of four (4) years' experience in installation of piping systems. Completion of a recognized apprenticeship program or proof of four (4) years experience from employers is necessary.

ATTENTION: Those candidates testing in order to secure a license or permit in specific state or local jurisdiction are urged to check with the jurisdiction **before** making application to NITC. License and/or permit requirements vary greatly between locales and approval from your jurisdiction may be required **prior to** testing. It is the examinee's responsibility to make sure that any specific requirements are met. NITC will be not responsible for ensuring that your local requirements are met, and refunds will NOT be issued.

ABOUT THE EXAMINATION

2015 UPC Journey Level Plumber, Includes Gas Certification Examination is based primarily on the **2015 edition of the Uniform Plumber Code** published by the International Association of Plumbing and Mechanical Officials (IAPMO).

A content outline is provided below as an aid in preparing for the Journey Level Plumber, Includes gas examination.

Official Exam References: 2015 UPC (Uniform Plumber Code) *

Description: Open book exam consisting of 100 multiple choice questions

Passing grade: 75% (75 correct)

Total time allowed: 2½ hours

Percent of Exam	Objective/Category
25%	General Knowledge of the Uniform Plumbing Code
25%	Sizing Drainage, Waste, and Vent Systems
25%	Sizing Water Supply and Distribution
25%	Sizing Fuel Piping

PERMITTED REFERENCES

The **2015 Uniform Plumber Code** book is allowed to be used during this examination

An NITC-approved proctor administers the multiple-choice examination. Candidates are notified of a pass or fail result in writing by NITC, the training agency, or by the association that requested the examination.

Candidates failing to achieve a passing score will be eligible for re-examination as soon as the next examination is scheduled. Candidates may re-take their examination at the NITC offices or at a PSI testing center. Re-examination fees are listed in the [Certification Examination Price List](#).

III. UPC MASTER PLUMBER, INCLUDES GAS

SCOPE OF WORK: UPC MASTER PLUMBER, INCLUDES GAS

A Master Plumber certification candidate is a qualified individual who can demonstrate mastery of the trade and will be skilled and experienced in management, planning, blueprint reading, and the practical installation, repair, and service of plumbing systems.

Installation, repair and service of plumbing systems includes the design, construction, installation, alteration, repair, service and maintenance of any new or existing system used for potable water, sewage, waste and vent, and/or gas piping in residential, commercial and industrial settings. A Master Plumber is required to have knowledge of proper plumbing terms and definitions, cross connections, back siphoning, backflow, water heaters, LP gas, storm drainage, plumbing fixtures, indirect waste, firestop protection, trade-related math and simple physics, proper sizing of gas, gas vents for appliances, proper layout, and planning and installation of all plumbing systems.

A qualified Master Plumber may perform these tasks alone, or through the supervision of other individuals.

Important additional candidate information: Although UPC Master and Journeyperson Plumber examinations are primarily designed to provide licensing agencies with information regarding qualified contractors and professionals in this trade, some test candidates may use these examinations to serve as an independent appraisal of their competency in the construction field.

A passing grade on one of these certification examinations does not guarantee that a licensing agency will award a license to the certification holder. If your purpose in getting this certification is to secure a license, then start your testing process by determining what your local agency requires of you. Consult with your local or state licensing agency prior to scheduling your test to determine which examination you should take and what, if any, prequalification criteria you must meet prior to testing.

EXAMINATION QUALIFICATION REQUIREMENTS

Candidates shall have a minimum of Six (6) years documented experience in installation of plumbing systems. Completion of a recognized Federal and State approved apprenticeship program AND proof of two additional years plumbing experience from employers is acceptable. Applicants must provide, in addition to meeting the experience requirements, a passing score on the NITC's Journeyman Plumber certification exam or provide proof of a passing score on a comparable examination offered by a nationally-recognized testing body.

ATTENTION: Those candidates testing in order to secure a license or permit in specific state or local jurisdiction are urged to check with the jurisdiction **before** making application to NITC. License and/or permit requirements vary greatly between locales and approval from your jurisdiction may be required **prior to** testing. It is the examinee's responsibility to make sure that any specific requirements are met. NITC will be not responsible for ensuring that your local requirements are met, and refunds will NOT be issued.

ABOUT THE EXAMINATION

2015 UPC Master Level Plumber, Includes Gas Certification Examination is based on the **2015 edition of the Uniform Plumbing Code** published by the International Association of Plumbing and Mechanical Officials (IAPMO).

A content outline is provided below as an aid in preparing for the Master Level Plumber, Includes gas examination.

Official Exam Reference: 2015 UPC (Uniform Plumbing Code) *

Description: Open book exam consisting of 125 multiple choice questions

Passing grade: 75% (93 correct)

Total time allowed: 4 hours

Percent of Exam	Objective/Category
2%	Administration
2%	Alt Sources for Nonpotable Applications
2%	Definitions
2%	Firestop Protection
11%	Fuel Gas Piping
5%	General Regulations
4%	Health Care Facilities / Medical Gas and Vacuum Systems
2%	Indirect Wastes
1%	Math
4%	Plumbing Fixtures and Fixture Fittings
28%	Sanitary Drainage and Vents
2%	Storm Drainage
3%	Traps and Interceptors
10%	Water Heaters
22%	Water Supply and Distribution

PERMITTED REFERENCES

The **2015 Uniform Plumber Code** book is allowed to be used during this examination

An NITC-approved proctor administers the multiple-choice examination. Candidates are notified of a pass or fail result in writing by NITC, the training agency, or by the association that requested the examination.

Candidates failing to achieve a passing score will be eligible for re-examination as soon as the next examination is scheduled. Candidates may re-take their examination at the NITC offices or at a PSI testing center. Re-examination fees are listed in the [Certification Examination Price List](#).

IV. UMC JOURNEY LEVEL MECHANICAL

SCOPE OF WORK: UMC JOURNEY LEVEL MECHANICAL

A Journey Level Mechanical certification candidate is a qualified individual who can demonstrate journey level competence within their scope and will be proficient in blueprint reading, jobsite safety, and in the practical installation, repair, and service of HVAC systems. A Journey Level Mechanical certification candidate may also be skilled in jobsite supervision

Installation repair and service of HVAC systems includes the ability to layout and fabricate ducts and fittings per the approved plans, construction, installation, alteration, repair, service and maintenance of all boilers, HVAC air handling systems, refrigeration piping systems, process piping heating and cooling systems in residential, commercial and industrial settings.

A qualified Journey Level Mechanic may perform these tasks alone, or through the supervision of apprentices or other individuals.

Important additional candidate information: Although UMC Master and Journeyperson Mechanical examinations are primarily designed to provide licensing agencies with information regarding qualified contractors and professionals in this trade, some test candidates may use these examinations to serve as an independent appraisal of their competency in the construction field.

A passing grade on one of these certification examinations does not guarantee that a licensing agency will award a license to the certification holder. If your purpose in getting this certification is to secure a license, then start your testing process by determining what your local agency requires of you. Consult with your local or state licensing agency prior to scheduling your test to determine which examination you should take and what, if any, prequalification criteria you must meet prior to testing.

EXAMINATION QUALIFICATION REQUIREMENTS

Candidates must have a minimum of four (4) years' experience in installation of mechanical/HVAC systems. Completion of a recognized Federal and State approved apprenticeship program, or proof from employers of four (4) years' experience, is required.

ATTENTION: Those candidates testing in order to secure a license or permit in specific state or local jurisdiction are urged to check with the jurisdiction **before** making application to NITC. License and/or permit requirements vary greatly between locales and approval from your jurisdiction may be required **prior to** testing. It is the examinee's responsibility to make sure that any specific requirements are met. NITC will be not responsible for ensuring that your local requirements are met, and refunds will NOT be issued.

ABOUT THE EXAMINATION

2009 UMC Journey Level Mechanical Certification Examination is based primarily on the **2009 edition of the Uniform Mechanical Code** published by the International Association of Plumbing and Mechanical Officials (IAPMO). The examination also contains a few questions based on information found in the SMACNA-HVAC Duct Construction Standards Metal and Flexible. A content outline is provided below as an aid in preparing for the exam.

A content outline is provided below as an aid in preparing for the Journey Level Mechanical examination.

Official Exam References:

1. 2009 UMC (Uniform Mechanical Code) *
2. SMACNA-HVAC Duct Construction Standards Metal and Flexible. 2005, 3rd Edition

Description: Open book exam consisting of 75 multiple choice questions

Passing grade: 75% (56 correct)

Total time allowed: 2½ hours

Percent of Exam	Objective/Category
4%	Administration
3%	Definitions
8%	General Requirements
7%	Ventilation Air Supply
12%	Exhaust Systems
11%	Duct Systems
11%	Combustion Air
9%	Chimneys and Vents
8%	Installation of Specific Appliances
5%	Steam and Hot Water Boilers
8%	Refrigeration
7%	Hydronics
3%	Fuel Gas Piping
1%	Process Piping
0%	Solar Systems
0%	Stationary Power Plants
1%	Standards
3%	HVAC Duct Construction, Metal & Flexible

PERMITTED REFERENCES

The **2009 Uniform Mechanical Code** book is allowed to be used during this examination

An NITC-approved proctor administers the multiple-choice examination. Candidates are notified of a pass or fail result in writing by NITC, the training agency, or by the association that requested the examination.

Candidates failing to achieve a passing score will be eligible for re-examination as soon as the next examination is scheduled. Candidates may re-take their examination at the NITC offices or at a PSI testing center. Re-examination fees are listed in the [Certification Examination Price List](#).

V. UMC MASTER LEVEL MECHANICAL

SCOPE OF WORK: UMC MASTER LEVEL MECHANICAL

A Master Mechanical certification candidate is a qualified individual who can demonstrate mastery of the trade and will be skilled and experienced in management, planning, blueprint reading, and the practical installation, repair, and service of HVAC systems.

Installation repair and service of HVAC systems includes the design, construction, installation, alteration, repair, service and maintenance of all boilers, HVAC air handling systems, ductwork systems, refrigeration piping systems, process piping heating and cooling systems in residential, commercial and industrial settings.

A qualified Master Mechanic may perform these tasks alone, or through the supervision of other individuals.

Important additional candidate information: Although UMC Master and Journeyperson Mechanical examinations are primarily designed to provide licensing agencies with information regarding qualified contractors and professionals in this trade, some test candidates may use these examinations to serve as an independent appraisal of their competency in the construction field.

A passing grade on one of these certification examinations does not guarantee that a licensing agency will award a license to the certification holder. If your purpose in getting this certification is to secure a license, then start your testing process by determining what your local agency requires of you. Consult with your local or state licensing agency prior to scheduling your test to determine which examination you should take and what, if any, prequalification criteria you must meet prior to testing.

EXAMINATION QUALIFICATION REQUIREMENTS

Candidates shall have a minimum of Six (6) years documented experience in installation of mechanical/HVAC systems. Completion of a recognized Federal and State approved apprenticeship program AND proof of two additional years mechanical/HVAC experience from employers is acceptable. Applicants must provide, in addition to meeting the experience requirements, a passing score on the UMC Journey Level Mechanical certification exam or provide proof of a passing score on a comparable examination offered by a nationally-recognized testing body.

ATTENTION: Those candidates testing in order to secure a license or permit in specific state or local jurisdiction are urged to check with the jurisdiction **before** making application to NITC. License and/or permit requirements vary greatly between locales and approval from your

jurisdiction may be required **prior to** testing. It is the examinee's responsibility to make sure that any specific requirements are met. NITC will be not responsible for ensuring that your local requirements are met, and refunds will NOT be issued.

ABOUT THE EXAMINATION

2009 UMC Master Level Mechanical Certification Examination is based on the **2009 edition of the Uniform Mechanical Code** published by the International Association of Plumbing and Mechanical Officials (IAPMO). The examination also contains a few questions based on information found in the SMACNA-HVAC Duct Construction Standards Metal and Flexible. A content outline is provided below as an aid in preparing for the exam.

A content outline is provided below as an aid in preparing for the Master Level Mechanical examination.

1. 2009 UMC (Uniform Mechanical Code) *
2. SMACNA-HVAC Duct Construction Standards Metal and Flexible. 2005, Third Edition
Description: Open book exam consisting of 100 multiple choice questions
Passing grade: 75% (75 correct)
Total time allowed: 3 hours

Percent of Exam	Objective/Category
8%	Administration
2%	Definitions
8%	General Requirements
4%	Ventilation Air Supply
15%	Exhaust Systems
11%	Duct Systems
9%	Combustion Air
6%	Chimneys and Vents
7%	Installation of Specific Appliances
5%	Steam and Hot Water Boilers
9%	Refrigeration
5%	Hydronics
4%	Fuel Gas Piping
2%	Process Piping
1%	Standards
4%	HVAC Duct Construction, Metal & Flexible

PERMITTED REFERENCES

The **2009 Uniform Mechanical Code** book is allowed to be used during this examination

An NITC-approved proctor administers the multiple-choice examination. Candidates are notified of a pass or fail result in writing by NITC, the training agency, or by the association that requested the examination.

Candidates failing to achieve a passing score will be eligible for re-examination as soon as the next examination is scheduled. Candidates may re-take their examination at the NITC offices or at a PSI testing center. Re-examination fees are listed in the [Certification Examination Price List](#).



VI. RECERTIFYING YOUR CERTIFICATION

The certifications addressed in this Candidate Bulletin are valid for three years and shall renew to subsequent editions of the applicable Code, either Uniform Plumbing Code (UPC) or Uniform Mechanical Code (UMC). Renewals require successfully passing a non-proctored, multiple choice “open book” examination based on the latest edition of the applicable Code. The renewal exam can be taken online at www.textract.com/nitc, mailed to certified individuals, or may be administered by a training agency, employer or association.

Important note about recertification:

Certification holders are responsible for keeping their certification current. NITC must be notified of any change in address. Changes may be made online, by telephone, or by mail.

NITC **strongly suggests** taking the recertification exam within three months of the expiration date. Be aware that while a “grace period” of up to one year after the date of expiration is extended by NITC the individual whose certification has expired is not certified during the grace period. **EXPIRED MEANS EXPIRED**. Failure to recertify within one year of the certification expiration date will require the individual to take the original examination.

Fees are listed in the [Certification Examination Price List](#).